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P. De Benedictis  
1965-1966

Alaska

Species Accounts - Part 2

Birds: Laridae - Fringillidae  
Mammals



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1962-1966

Alaska

Species Accounts - Part 2

Birds: Larks - Pongilidae  
Mammals



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Alaska

Species Accounts – Part 2

Birds: Laridae – Fringillidae  
Mammals







P. DeBenedictis  
1965

Stercorarius pomarinus

June 9

AFB =  
VOTH

Barrow, Alaska - almost all the birds seen today were well over in the area by the old AFB radar installation remains. Most of the rest of the area is snow covered and scattered jaegers were seen sitting in the snow or behind the few tufts of soil present; a few flying low over the tundra, not more than 10 birds away from the AFB area. In the AFB area counted 23 birds in sight at once but I believe at least 10-15 more were present as there were at least 6 and probably 8 pairs of territorial birds in the area. Aerial fights were not common but were seen regularly, and the wing up display was given by many birds on the ground as others flew over. Saw very little V-flying. Only one food chase and ~~several~~ <sup>most of</sup> the birds were sitting on the ground. ~~As~~ we approached one Snow Owl nest, the ♀ flushed at about 30 feet distance. I immediately 3-5 jaegers descended on the nest and began to peck at the eggs, obviously eating the egg contents. At one time there were 3 jaegers at the nest, a 4<sup>th</sup> hovering over and a Glaucous gull (which never got anything) nearby and at least 7 or 9 birds eventually got some egg material. ~~2~~ <sup>2</sup> whole eggs were carried off (after they had been broken) and an additional large piece of shell was carried out of the nest, leaving two eggs behind. Dr. Pitelka and I stood 12-15 feet from the nest at one time and 3 jaegers landed nervously & repeatedly by the nest but would not get into it. After we left they returned only slowly to the nest area and did not appear to get any additional eggs;







1965

Stercorarius pomarinus

8 June Barrow, Alaska, cont.

a jaeger was struck by the ♂ Owl, although earlier they had not been bothered. The jaegers here are much whiter below and have less ~~black~~ on the wings than do most of the birds I have previously seen in Montney Bay; Only saw 4 Black-phase birds and no "2<sup>nd</sup> year" plumage. Saw 2 jaegers eating ice and see Snowy owl for additional account of humming feeding.

10 June. none about AKL area; all birds seen today were south & east of the Beach ridge. The 1<sup>st</sup> large concentration seen was 18 sitting on the snow in the SE part of the central marsh in a large area; about 10 territorial birds could be seen in the same area to the SW; there were scattered birds along the Beach Ridge and elsewhere in the Central Marsh and towards Elson lagoon from this area, again mostly apparently territorial birds. There was a group of about 12-17 birds on the N point to Wohlsehlag Slough and a slightly smaller group (8-12) near Grant Point; about 8 additional birds were feeding or flight-displaying over Wohlsehlag Slough. Saw only 1 or 2 noddie birds and very few (2 or 3) aerial combats.

11 June Saw much territorial flight but no concentrations although 6-8 birds could be seen at one time; the birds are rather evenly spread out in the area south of the beach ridge.







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Stercorarius pomarinus

12 June

Barrow, Alaska - birds were scattered and in Territorial flight over much of the tundra today. In the A.M. when chasing lemmings I grabbed one which Mallen didn't want and threw it out on the ice. It appeared to be skinned & eventually a jaeger came along, grabbed it and shook it well before eating the rest. In the afternoon no concentrations were seen except in the Voth area, where a group of 12 and another of 18 were seen resting on exposed grassy tundra; there were about 2x the standard # of jaegers flying around although many appear to be territorial. Saw 2 lemming fights, one involving two birds, only one of which got the lemming; the victor flew into the air and gulped the lemming in flight. Only saw 2 or 3 Black phoe birds today. The concentrations today clearly correspond to the amount of exposed tundra.

13 June

There were a little more conspicuous around the Barrell Area this morning and one black <sup>phoe</sup> ~~bird~~ was present. Along the W side Fanny Lagoon no concentrations noted but the #s of birds flying about was higher than elsewhere. Saw several lemmings in the area and at least 3 lemming kills; one was followed by a fight and all the jaegers swallowed the lemming in the air. Saw a pair sit in an open area repeatedly attack a snow owl, fly down at her, ~~always~~ <sup>always</sup> face on and were fairly







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13 June

Barrow, Alaska

noisy during the periods. The ♀ owl appeared to be snapping at raising a claw to the jaeger; finally the conflict was ended when the jaeger quit.

14 June.

Numbers of jaegers flying over the Central Marsh & Beach ridge areas seem little changed from yesterday; we worked along the shore of Elson lagoon where the density of birds flying <sup>about</sup> ~~was~~ <sup>was</sup> about  $1\frac{1}{2}$  times that elsewhere. Much territorial flight seen and ~~long~~ <sup>long</sup> ups given by birds on the ground; saw 2 or 3 lemmings and some aerial gulping; no other display behavior. Saw a jaeger continuously dive at a ♂ Snowy Owl, which tried to claw the jaeger as the latter made its passes. Three large groups of jaegers on the ground were seen, the birds sitting very low in the snow, and in ~~all~~ <sup>all</sup> cases consisting of two groups, with scattered individuals around. In the SE part of Central Marsh there were  $56^+$  jaegers, in Wohlshaly Slough  $41^+$  jaegers, and in Ikpik Slough  $70^+$  jaegers. as usual there were only a few dark phase birds, not more than 6 or 8 seen during the day. Saw one that I would call an "intermediate" phase today for the 1<sup>st</sup> time.

15 June

In the morning went out to Elson lagoon with D. Mullen, saw relatively few Jaegers. There was a group of about 15 on the flats at the Neud-Houes' Morass and a few courting along the shore of Elson







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Stenocranius pomarinus

15 June

Barrow, Alaska

Lagoon. Saw no kills but one bird in a posture that looked like a gull regurgitation posture. Only about 6-8 near the Baruel area but 2 black birds.

16 June

Only 2 birds seen between AKL and the Beach ridge; At least 80 birds out on Central Marsh but the birds almost all on the snow and only 10-12 birds flying about in the morning. In the afternoon there was a group of <sup>33 (2 flocks 13 & 14)</sup> in the SE part Central Marsh, a group of 44 in the SW side, and about 15 on Wohlshchik Slough. There was more jaeger activity along Elson Lagoon than elsewhere in the area, and Central Marsh and the area W of the Beach Ridge was quiet. No change in display from yesterday; ~~one~~ <sup>one</sup> ~~few~~ humming flights; the birds not eating the beest, now.

17 June

The largest group seen was 7 near the W side Family Lagoon on a patch of ~~cleared~~ <sup>cleared</sup> tundra; There were a few scattered pairs flying about but numbers were ~~low~~ <sup>below</sup> what ~~are~~ <sup>are</sup> usually seen in the area between Family & S. Salt Lagoons. In the afternoon Hamilton walked up to a pair which protested his presence by circling and screaming at him; but no attacking. We eventually found one egg in a depression (indented) in rolling tundra about 14 feet from a trough and on frozen soil. We were able to line the nest with a yellow road







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Stercorarius pomarinus

17 June Barrow, Alaska - marker and the ~~the~~ <sup>most</sup> ~~near~~ pole of the areal complex in Barrow Village. The ♀ settled on the nest soon after we left, both otherwise stayed away from us. No special display seen otherwise.

18 June Saw one Copulation and <sup>the end</sup> ~~pursuit~~ <sup>fleeing</sup>. In the  
1<sup>st</sup> the male remained mounted for 1-2 minutes  
but the pair seemed uncoordinated & the vents  
made contact only twice. Each time the male  
placed both wing tips on the ground, and after  
the 2<sup>nd</sup> time they separated. There were two  
groups, about 20 + 30, on the S part of  
Central Marsh and a group of 15 on  
Fresh Lake today, and somewhat more  
territorial birds than <sup>yesterday</sup> ~~today~~ though still below  
what was ~~found~~ before the last stormy period.

19 June No concentration noted today. The nest from June 17 still contains 1 egg according to Hamilton and a second probable sitting ♀ was seen. Watched the ♂ of the 17 June nest fly in territorial boundary with a 2<sup>nd</sup> ♀ the two going back and forth over a 100 foot area, turning in remarkable synchrony and on two occasions appearing to make a brief contact in the air. One bird out in a puddle was playing with what appeared to be an old shirt, picking it up and dropping it in to the water with its beak in quail-like fashion.





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Stercorarius pomarinus  
~~Stercorarius~~

20 June Barrow, Alaska - Saw one sham copulation. There were groups of 12-15 on S (one group) and M (2 groups) salt lagoons in addition to territorial birds, and the nest found June 17 now contains 2 eggs.

21 June Nothing on <sup>Middle</sup> S. salt lagoon except about 10 near the opening in the ice but about 35-40 on ~~Middle~~ <sup>South</sup> salt lagoon, all just sitting. No special behavior was seen other than territorial flights and the nest was not checked.

22 June. Only a group of about 15 on S. Salt lagoon in the above area in addition to territorial birds; only sign of a nest is the 2 egg one above. In the evening went towards Elson lagoon: a group of ~40 out on Central Marsh and ~10-15 on Wohlseholy + territorial birds. Found 4 nests 3 in 1 egg, 1 with 2 + Steve had found 2 1 egg and 1 2 egg nest in the same area. Saw one copulation.

23 June A group of about 40 birds on the S part of Family lagoon near an opening in the ice.

24 June No change in above area. See Par. Jaeger.

In the afternoon spotted a large group on Central marsh and counted 69 on the ground and at least 10 overhead. There were about 15 on the mouth of Wohlseholy slough. Found 5+ nests today, 3 already marked and 2 not checked.

1 on about 100 yards WSW of the Cell tower at Beaut Point now contains 2 eggs (one on the 22<sup>nd</sup>) and the





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Stercorarius pomarinus

- 24 June Barrow, Alaska - Two seen earlier (both with 2 eggs) each had the same, while the new nests were both 1 egg nests. Saw no copulations and no fight, but much aerial display. Glaucous gulls successfully robbed jaegers of turreting on two occasions. None of the birds seen bombed me. One of the pairs has a black ♂, the rest of the 5 pairs are all light birds.
- 25 June Still good numbers in Central Marsh, and widely distributed but not very active elsewhere. Not many on Family lagoon. Found a pair passing over a scrape 6 feet west of a pole left over from last year.
- 26 June Saw birds in "regurgitation" postures on 2 occasions and believe they are casting pellets but couldn't verify this. Most nests now seem to contain 2 eggs. See Snowy Owl. Only about 1/2 as many on Central Marsh now, due to the flooding there.
- 27 June Found 2 nests and saw 2 other s. Hing Is which we didn't check. The nest near Voth Slough had a black ♂. and the nest in the VOTH area was defended by a ♀ which repeatedly dove at me the feet dangling and getting wildly. There are about 20 or so out in Fresh Lake and in S. Salt lagoon but do not seem to be the territorial birds that were present earlier. Found 2 sets of Pon. jaeger wings dissociated from bodies.
- 28 June A nest with 2 eggs near a pool in Micomet Marsh. Some pairs don't seem to be settled yet. (see journal for today).







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Stercorarius pomarinus

- June 29 Barrow, Alaska - found a nest with 1 egg in Britton's area which I saw June 27 and found a shell that had been pecked open about 35 feet from this nest. There are at least 2 pairs near here but the adults are very wary, settling on "dummy nests" and not being willing to play hot and cold with us when we approach the nest areas. - perhaps they have not started. They are quite scarce around the lagoons by the lab and there do not seem to be as many pairs even in the UOTH area as I had expected would settle out; there are none in the areas where the non-reeding owls hang out but these areas are surrounded by pairs. Saw them harassing long-tails on two occasions.
- June 30 Someone has really been potting these birds in Central Marsh as 6-7 dead birds were seen. There are still 2-3 small groups out on the marsh as well as a few pairs; elsewhere the area is occupied by pairs which do not now appear to be filling the entire area occupied by breeding birds. Densities, as yesterday, do not appear to be as high as they appeared at first they might become.
- July 2 Still small groups of birds out in Central Marsh sitting along the edge of "pools". They are very inactive. Most of the birds that were hanging out around the lab are gone and one of the birds still present was giving the stiff-winged territorial flight. Still no sitting bird in the Micromet area.





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Stercorarius pomarinus

- 4 July Barrow, Alaska - found two new nests, both with 2 eggs, near VOTH slough. The pair at the 1<sup>st</sup> nest attacked me viciously but the 2<sup>nd</sup> pair just flew off and left me be. On 3 different occasions a ♂ Pomarine which was flying by all of a sudden made a pass at my head, silently and usually from behind. When I am being bombed the jaegers always will stop to chase off an intruding bird. density is very low. Found an egg shell, too broken to see the cause, in the VOTH area and another near the Gasline Ridge; I suspect they are bird eaten. Saw no groups of Pomarine anywhere.
- 5 July A group of gulls which perched near lines III was flying towards a jaeger territory - a small group of gulls wandered off and one of these was attacked by the jaeger + quickly gave way; the main flock at the same time turned back.
- 6 July Checked 4 nests along Elson lagoon and found 2 eggs in all; at two I was attacked + at 2 was left alone. I was attacked by lone birds on 4 diff. occasions. Saw Poms. attacking Snowy Owl and L-Tail Jaeger today.
- 7 July Found a nest that McClean had marked previous by the AAC5 shack. It contained 1 egg. The parents followed me around and when I checked a semipal. nest the ♂ swooped down at the ♀ <sup>pusillus</sup> ~~which~~ which was giving a distraction display, and tried to catch it. I was no far from a Pectoral nest + ♀ Pectoral came up.





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Stercorarius pomarinus

7 July Barrow, Alaska - went into a distraction display and was attacked by this same jaeger, again unsuccessfully. There were about 12 birds (1 group 8) at the N end of Fresh Lake but no many other non-territorial birds in the area from the hub to Lines IX+X. A nest with a very dark and a very light egg was found near Calidris pusillus Nest 18; the parents were only moderately vicious, and the 1 egg nest found June 29 still has 1 egg. The pair that was opposite (cast off) the FAA tower seems to have disappeared, ~~fisher~~ moved across the road to the nest found by Hamilton. No groups of jaegers seen in the afternoon.

9 July There is a group of about 6 in Footprint Lake. The pairs, although widely spaced are somewhat denser than I had suspected, about 17 pairs/mi<sup>2</sup> in the area from VOTH Creek to the gas line. We found 5 egg nests today and saw 3 sitting birds which we were unable to check. One pair located earlier in the year seems to have disappeared and the nest couldn't be located. Two pairs I suspect are replacements for birds shot earlier in the year, as they did not seem to have a nest. (I have been wrong on this before). The reaction of the birds to approach was variable, about 1/2 the pairs ~~leaving~~ leaving us alone and the other fighting furiously. Should check for black birds soon. All feeding seen today clearly involved buntings and the jaegers did not seem to be showing any trouble finding prey.





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Steccoranus pomarinus

July 10

Barrow, Alaska - the birds on the Beach ridge and the area to the N and in Central Marsh appear to be occupying territories ~  $\frac{2}{3} \times$  those of birds elsewhere - or there are large unoccupied areas. They are comparatively scarce in the ~~marsh~~ <sup>meadow</sup> lakes area although considering ~~the~~ <sup>large</sup> area they might be comparatively sized territories there as well. Holme's Morass proper has a low population but the higher area along Wabishung Slough + Elson Lagoon is as densely occupied as any place else. One nest found had only one egg, and 2 light-dark egg nests were seen. Still a considerable variation in their reaction to intrusion. About 3-5 black birds in this area.

11 July

Birds in the region south of Footprint Lake were obviously nesting and were seen in densities quite comparable to the area just N of Footprint. They were fairly quiet and were frequently seen in aerial chases. No nests were found but many sitting ~~birds~~ <sup>birds</sup> were seen. A two egg nest seen in ~~the area~~ <sup>Footprint Lake</sup> must have been fairly recent as the area it was in had been flooded not too long ~~ago~~ and the "group" there seems to have split up as the group on Central Marsh. No signs the birds are having any trouble yet.

12 July

Steaked a two egg nest west of line IV and saw another sitting bird. The nests on pitelha's plot either destroyed or given up.

13 July

The birds on Central Marsh in the North east part





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- 13 July Barrow, Alaska appear to have flocked up again and were seen fighting over something on the ground. A group of 3 replaced a "♂" seen earlier in this area. The last nest found in the Voth area (7 July) was empty and one of the pair had been shot.
- 14 July The nest near the 10 stakes on P. Telha's plot seems to have been broken up and the nest along the weasel road still contains one egg. <sup>Still flocked</sup> ~~Only one~~ nest in the NE part of Central Marsh. (The 1<sup>st</sup> nest (Take 17) we found has been unstaked again - parents no longer aggressive & it might have been broken up <sup>July 13</sup>).
- 15 July The birds at the nest near HACS again done at the Semipal. Sandpiper at Nest 13 when it went off in a distraction display, missing it on two occasions.
- 16 July Found 2, 2 egg nests where the Elson Lagoon weasel road crosses the Beach Ridge, one nest with a piped egg. One nest along here has been broken up, the egg cut in half and one adult dead. The incubation patches are quite interesting, obviously for 2 eggs only



A nest found 22 June and probably the one flocked again 24 June contained one egg, 1 chick and the shell of its egg. The nest had been marked and the stake was lying on the ground; even if this nest was among the only other staked nest in the area





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Skua corvus pomarinus

- 16 July Barrow, Alaska, was also a leggy nest on 22 June. This gives a incubation period of 24+ days, and the date for the 2<sup>nd</sup> egg should be checked; if normal it is probably indicative of a long interval between eggs.
- 17 July There was 1 chick out of the nest and a piped egg in the Jaeger nest found ~~July~~ <sup>27 June</sup> (with 2 eggs then). The adults still bombed me. There appear to be two new pair of jaegers in the area where the road crosses WTH creek to the golfwell, and one acts like they have eggs but I have not seen them sitting. Other nests checked with eggs. The 1<sup>st</sup> nest found can't be located as the marker is gone but the adults are in the area, the nest almost certainly having hatched.
- 20 July The nest just N of Crestline Ridge contained 1 young and 1 cracked egg. Shells in the nest, but the young bird quite dry.
- 21 July Checked nests along Wohlschlag and Elson lagoon. The nest on Pitelka's plot was gone the last time. The side nest checked and the ♀ not in the area, though birds from Holmes's Marsh have moved into the area. The birds in the N part Central Marsh not nesting and no indication of hatch in birds in the east part of the marsh. The pair with a piped egg 16 July now far from nest stake. The next 3 pairs along the road each had 1 young and 1 egg, this cracked but no hole in 2 cases; a one egg nest in from the road unchanged; the ♀ of this pair almost sat on my head. The 1<sup>st</sup> two nest along the lagoon with 1 (probably 2





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Stercorarius pomarinus

21 July Barrow, Alaska - (but found only 1) and 2 chicks, the latter fairly small, and the nest in the Horns from there with 2 eggs. The next pair, possibly two pairs, down are gone and 2 snowy owls were in the areas they occupied. Saw fights over the W part of Holmes's Horns but didn't check nests there. Should get back to UOTM pretty soon now. The largest young are now around pretty well but don't seem to be more than 3-5 days old. They don't bother the long-bills out in Central Marsh.

22 July The one egg nest near AACS not yet hatched. The pair close to the road south of S. Salt lagoon gone and Hamilton found a broken egg <sup>+ white feathers (sp?)</sup> by the nest; the pair further in still there but well away from the nest marker (nest not checked) as were all other pairs. No signs of any hatching except for the 2<sup>nd</sup> chick at the 27 June nest (see 17 July). The pair at the latter nest were quite nasty, especially, so I was near the 10.0 end of line ~~TEA~~ TEA, where one bird hit me 3 times. Who says they calm down when the eggs hatch?!

When I was checking the pectoral nest near AACS the ♀ pectoral went into a distraction display on numerous occasions. The pair of jaegers whose nest is only 100 yards away were bombing me and when they saw the ♀ pectoral they dove at her, obviously trying to catch her, on 5 different occasions. Each time the pectoral flew when the jaegers were about 2





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Stercorarius pomarinus

22 July Barrow, Alaska - three feet away and ~~avoided~~ the jaegers without much trouble. The act was quite effective as the jaegers took off the ♀ as soon as they saw her, even leaving me alone. Another hundred where I guessed several semipal chicks to be in the VOTH area and the adult semipals would fly noisily to about 6 feet from the jaeger and run off giving a mixture of the "chick" and trill calls, very loud. As these ~~semipals~~ <sup>semipals</sup> were doing this the jaeger was constantly wailing the adults and forced no young (nor chased any puffins adults.) It (the jaeger) eventually got up and landed about 30 feet away, where on the semipals also quieted down.

23 July Saw lone chicks at the nest on the weasel road to DSC + GS and at the end of LINE VI, and all others in this area appear to have hatched young. No pairs missing. The young move quite far from the nest. The pair of the nest at the 100 post of LINE VI were quite mean; the ♂ struck me 4 times, the 1<sup>st</sup> time so hard that it appeared to injure itself, for there was blood on my parka and on the jaeger's flank. When they bonk you, the BONK you!

24 July. One nest along the gaswell road missing but the pair present + the others with eggs in the VOTH area. the nest near the forks in VOTH creek three empty, shells near by, as the next nest inland, the pairs





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- 24 July Barrow Alaska - present at each. found an unmarked nest with 1 chick and 1 egg, the parents present but not demonstrative, to the west of Gasline Ridge across the gasline - this pair noted earlier and it may be the long missing nest. No evidence of any missing pairs but the 1<sup>st</sup> extant nest along the gasline road on the east side no longer vigorously defended though the eggs warm.
- 25 July In the area south of Ikroavik the populations appeared to be somewhat less dense than N and W of Ikroavik although I suspect this due to the low wet tundra rather than scarcity of food; they are concentrated in the area of high center polygon and the upper lake margins and fringe out toward the lake. Estimate populations in the 10-15 pair per square mile level in this area. Several birds sitting on nests. <sup>Small</sup> flocks <sup>to 10 birds</sup> were seen on Footprint and Sengooook lakes.
- 26 July Two nests near VOTH area each with one eggged piped and a hole ~ 1/2 inch in diameter and the other cracked and one <sup>nest</sup> with a freshly hatched young, the other egg ~~entire~~. One egg nest near where the weasel road crosses VOTH creek, the pair not demonstrative and arrived in the area about July 17.
- 27 July The 1<sup>st</sup> nest along the gasline Road (2 piped eggs yesterday) with 1 chick, 1 egg. The one egg nest found yesterday and by AACS ~~was checked~~ <sup>unhatched</sup>.





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Stercorarius panorinus

29 July Barrow, Alaska - There appears to be little indication yet of the fate of the year crop though some signs are ominous. The pairs along the weasel road to the Central Marsh area are very inconspicuous and the pairs to the N and S of the Aulik shack seem to be gone. On the other hand all others present and a few large though downy young seen. One at the end of line VI begged for food with a high rolling chatter ..... and was fed by regurgitation (onto the ground) by the ♂. A pair was seen to catch a LEAST WEASEL, q.v., which nearly fended the jaegers away. Judging from the difficulty they had they do not normally eat weasels and the fact that two jaegers from outside tried to get the weasel may be an indication of a food scarcity. A pair was seen <sup>pulling</sup> ~~pull~~ on a dead Lemming after it had been nearly pulled in half, one of the pair ate the lemming.

Jaegers widely distributed over the area south of Wohlseh lag, about in the 15-20/mi.<sup>2</sup> level of population. all appear to have young and 2 chicks seen, both 5-10 days old.





P. D. B. B. B. B.  
1966

Stercorarius pomarinus

- 5 June Meade River Coal Mine, 150°25'W, 70°29'N, Alaska  
4 light phased birds seen flying east over camp  
about 9 A.M. and 3 light and 1 dark bird about  
noon. Two light birds about 5 P.M. Surprising  
to see this species here!
- 8 June One flew over <sup>census plot.</sup> ~~camp~~ about 4 P.M. A ♀ seen  
about an hour later and a ♂ launched along the  
Meade river about 5:30. All light phase birds.
- 9 June One flew over in the A.M.
- 10 June One near camp about noon.
- 11 June a pair flying over camp about 10 A.M.
- 12 June One over h. Agassiz about 2 P.M.

Stercorarius  
pomarinus





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Stercorarius pomarinus

- 24 June Barrow, Alaska - a dark bird a dark-breasted bird appeared behind the lab in the barrel area today and were seen on two occasions before and after noon. The 1<sup>st</sup> time seen they viciously attacked, striking in flight, those Pomarines that passed through the inner barrel area, and succeeded in chasing 2 (but not a 3<sup>rd</sup>) away. They appear to be covering a large area but are clearly interested in the barrel area. Didn't hear any calls, and saw one brief wing up when the dark bird landed.
- 26 June The same (?) two birds seen briefly in this area in the evening.
- 27 June Same pair still present; saw a lighter colored single in the VOTH area.
- 28 June Saw 2 pairs together over the barrel area, both of one light and one dark bird. The call is a "Ki-ow" intermediate in pitch between S. longicaudus + pomarinus. Neither pair remained in the area very long.
- 29 June Saw one behind the lab and one in Dr. Hou's Area.
- 30 June One dark bird seen on the Beach Ridge and another behind the lab.
- 2 July Two dark phase birds seen over Central Marsh along the Beach Ridge in the morning.
- 5 July One light phase bird seen near lines III A-B in the evening
- 8 July One light and dark phase birds seen near Family house.





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Stercorarius parasiticus

- 10 July Barrow, Alaska - a light phased bird was seen chasing a phalarope over central marsh; both rose to ~150 feet in the air, and the phalarope then dove + swerved, losing the jaeger. A dark phased bird over Woldshay.
- 21 July 1 flying west high over Central Marsh.
- 26 July 1 light phased bird along the shore of the Chuckchi Sea in the ~~evening~~ afternoon.
- 29 July dark phase bird along Chuckchi Sea in the morning.





Stenocranus paucitars

30 May

Meade River Coal Mine, 157°25'N, 70°29'N, Alaska

A dark-phased adult ~~bird~~<sup>gliding</sup> along the dune face 2-3 km. N of camp <sup>N</sup> flew directly over my head, and continued on, about 11:30 A.M.

31 May

A light phased bird hanging about the camp area most of the day, one seen with a dark bird. Several flocks of "jaegers" seen at a distance from camp. A different light phased bird seen in the afternoon and some calling heard. They seem to be working the tundra but not trying to catch anything in particular. About 5 PM Ray spotted a light and a dark bird together eating a Ptarmigan near my "census plot".

1 June

A pair - a dark and a light bird - seem to be establishing themselves behind camp. Present all day long, more or less actively patrolling but not obviously bothering any of the small birds. A long-tail Jaeger which went through the area they patrolled was vigorously attacked until it left the area. About 3 PM Phil Johnson spotted the light bird diving at a Glaucous gull, the dark bird perched nearby. The jaeger swooped at the gull about 20 times in 3-5 minutes, hitting it several times, then landed near the dark bird. The gull did not leave the area (g.v.).

2 June

The "local pair" seen near the large lake N of camp in the Morning and midday. 2 Dark birds seen about 11:30





## Stenocranus parsonianus - 2

2 June

Meade River Coal Mine, 157°25'W, 70°29'N, Alaska  
They local pair occ. hold the wings up for a  
beat when they land, but never as pronounced as  
~~as~~ Pomarine. When a odd jaeger intrudes  
Both birds set off a terrible racket ooh awww nah  
ooh awww nah ooh awww nah ~~aaa~~ but don't seem  
to be terribly inclined to chase. Patrolling  
birds do not typically show deep wing beats,  
and they ignore small (Chonyspur) birds.

3 June

The light phase bird was circling about over  
the village, stirring up all the huns. about  
11 AM and there was an odd ptarmigan kill  
The jaeger was not seen to chase any of the  
shorebirds. The local pair noted near camp  
during the rest of the day.

4 June

The local birds still here. Ray said he saw 2  
chasing a "small bird" and were joined by a 3rd  
bird which caught and ate the small bird.

5 June

About 6-7 birds came through camp from 8 to 9 AM  
and a few about noon. The local pair ranges from  
South ridge to the village, over an area along the  
river about 1.5 km wide. The local pair was seen being  
mobbed by 4 longtails near the village about 7 and  
later by 2 longtails on the village ridge; the longtails  
don't seem to be staying here, though.

6 June

The local pair and a few probable migrants seen  
in camp and near the village in the A.M. The local birds  
can often be seen in the village in the long tails





Stercorarius parasiticus - 3

7 June Heade River Coal Mine, 147° 25' W. 71° 20' N, Alaska

The local pair seen attacking 2 glaucous gulls behind camp in the A.M. A few seen around the camp area during the rest of the day.

8 June. A chick and 2 light birds near the scrublot. after resting on the ground. One seen working along the river shore apparently checking the willows there closely, but not finding anything.

Apparently, there is near the village, at least 3 light and 2-3 dark birds there. Possibly the "local pair" is more than one pair. Eating garbage. One long-tail / Parasitic chick seen, and a little Parasitic / Parasitic fighting. The ground call given from an oblique position with the wings folded, most pronounced in the ♂. See Yellow Warbler.



9 June 3-4 light birds and a couple of dark birds near the village. Quiet and little display. Don't have the impression of paired birds there anymore. Little activity in the evening. A dark bird chasing long-tails over the village about 6 P.M.

10-10 June A few near the village and occasionally one in the camp area. Fight with long-tails in the evening by the village. Only light phase birds seem to be around now. Eating garbage!





Stercorarius parvulus

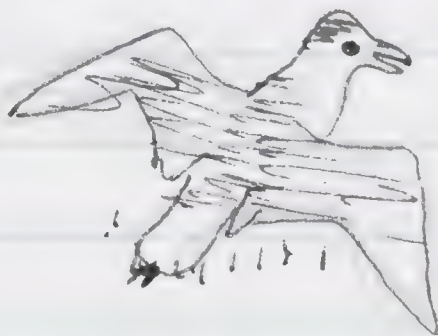
12 June ~~Hay Lake~~ Pleasant River Coal Mine, 157°25'W, 70°29'N, Alaska

Very little in evidence. Ray said he found a nest with one egg at the South end of L. Agassiz. I suppose that's why there not around though occasionally see them chasing h-Tails at the village.

13 June There seems to be 1<sup>st</sup> pair near the village bluffs, at least 3 seen together. The pair is a light and dark bird. No evidence of a nest

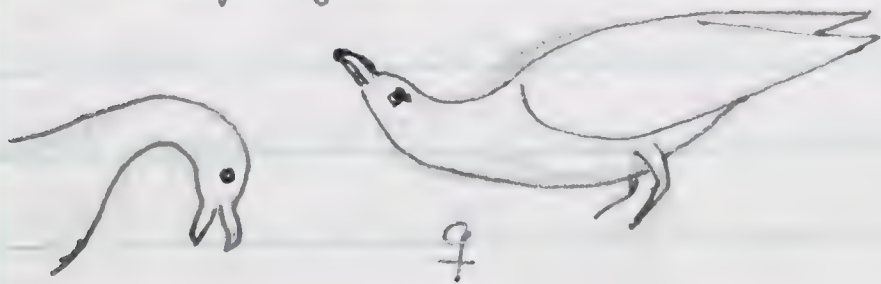
16 June Found the nest at the S end of L. Agassiz.  
(Pale ♂, dark ♀)

Two eggs. When we got near the nest the bird flew over screaming much like pomarine, except that they did not try to hit us, and also went into a distraction display with the wings open and weakly flapped, the head up and the tail down. They called a low wuzzy, wuzzy call that sounded like a sick puppy, or a whining dog.



Later we saw this pair on

a high polygon. The ♀ begging and the male feeding by regurgitation. The ♀ begging posture was a low arch with upturned pointing head. and the ♂ a upright arched posture. These birds cover



an area of over a square mile from South ridge to village creek.





Stercorarius parvulus

- 17 June Meads River Coal Mine, 150°25'<sup>W</sup> 70°29' N, Alaska  
Went out to the nest, which we couldn't find, and got a show like yesterday when we approached. The birds flying over and giving distraction display. The ♂ seldom close together or acting in unison. This pair must range over a large area.
- 18 June One fighting with a<sup>a</sup> long-tail Jaeger in the village.
- 19 June One chasing a L-Tail over the census plot. The two birds about evenly matched, and the fight undecided until the L-T. flew off. The Paraulis later seen on the census plot. A ? ♂ with black sm. Sofcap.
- 20 June A pair NW of the village as usual.
- 21 June The pair Sofcap seen hunting over the census plot much of the A.M. Their style is very characteristic. They seen 6-10 feet up going slowly with little wing beat; the head pointed down and ahead and occasionally looking forward. When they see something interesting they circle back over an area without hovering. A smaller bird will come a an area of ~20 acres at a time going back and forth over strip ~20 yd apart. They seem to be looking for shorebird nest. The light bird with both remaining eggs of the Redpoll nest on the plot, and was then chased off by a L-T. Jaeger. This bird returned in the afternoon about 2 PM and spent about 10 minutes circling over the area before leaving the census plot for the day. See S. longicaudus.





## Steccoranis parasiticus

- 22 June Meade River Coal Mine, 157°35'W, 70°24'N, Alaska  
Two light phase birds near camp in the evening don't seem to be birds I had known about earlier.
- 26 June Still hunting on the census plot.
- 27 June Two light birds on the flats opposite camp.
- 28 June The ♂ of the coral birds seen on the census plot briefly, later over Lake Agassiz, where it was stirring up the Arctic Terns.
- 30 June Still on the nest at the S. end of Lake Agassiz. Ant said the natives have been shooting birds out in the dump at the village.
- 3 July A dark phase bird landed on a nest at the E end of the flats opposite the North bluff area. A light phase bird near there. Didn't check the nest.
- 6 July Seen over Lake Agassiz.
- 9 July Seem to be spending most of the day over Lake Agassiz.
- 11 July Went over to the nest to see what was going on. The adults were in the area and gave strong distraction displays and attracted me, but did not sit anywhere. Ray later found 2 chicks, as I had suspected. A second light and dark bird in the area, which were chased out by the nesting pair. When a Glaucous gull flew over, it was attacked immediately, and went off as fast as it could. They seem to be hunting over the lake, and also on the Enoplosus flats of South ridge.





P. DeBenedictis  
1965

Steucorairus longicaudus

- 20 June Barrow, Alaska: - one seen flying from the FACC tower area toward the S end M. Salt lagoon; it landed on the rim of the lagoon for a short time and then took off by NE across the lagoon out of sight. The back was a little darker than the other two long-bills I have seen but the tail feathers vibrated up & down in typical fashion as it flew.
- ~~21 June~~ In contrast to the other shorebirds, this species appeared to be somewhat more numerous today than yesterday. (Apparent to Red Phalarope?).
- 21 June A single bird in plumage similar to the one seen yesterday flew in and landed between M & S Salt lagoon; it flew in from the W and remained 3-5 minutes; it first preened then walked over to a <sup>high</sup> polygon and ~~he~~ <sup>he</sup> began to pick up something that looked like rodent guts or head (caution) and drop it; I went to the spot chasing the jaeger away before it had been able to eat this and was unable to find anything except clumps of reddish-brown lichen or moss. The tarsi are almost bluish-white and the rest of the legs & bill are black;
- 24 June Saw one over family lagoon and ~~one~~ <sup>another</sup> carrying a hummingbird high in the air (alone), dropped the hummingbird, then gobbled it again and swallowed it, in the AM and two together near the W entrance to Wohlsehlag Slough in the afternoon.
- 25 June A short-tailed individual was seen on two occasions (about noon & 10 P.M.) near ARL.
- 26 June A "no tail" bird allowed very close approach on Dr. P. K. H. S. plot.





P. DeBenedictis  
1965

Stercorarius longicaudatus

27 June Barrow, Alaska - 2 single birds and a "flock" of 3 were seen over the Barrow area and 1 was seen over the UOTL area, another over Family Lagoon. It (the last) was in a chase involving a ~~P.~~ Pomarine and called loudly, the calls much higher than Pomarine and longer. like the protests Poms give near the nest. All seen today had fairly good tails except the 1<sup>st</sup> bird ~~which~~ <sup>which</sup> was rather dirty below and had short "tails".

28 June One seen towards the N end of Family Lagoon was going after a very dead, small Lemming, and was bothered (but not actually attacked) by a pair of Pomarine in the area. A medium-light and a very light individual were seen near the Barrow area.

29 June. Only one seen in the morning but at least 8 (3 over the lead, 2<sup>+</sup> near Family Lagoon, and a group of 3 including one subadult near Bulton's area). I traced a call which sounded like a Amer. <sup>Wigeon</sup> ~~W. Wigeon~~ (whistled "wee kee") to an individual of this species being chased by a Pomarine J. near Micromet in the evening.

30 June ~~and~~ An adult + a subadult seen over Central Marsh in the morning.

2 July An adult and a short-tailed subadult seen over Micromet Marsh in the ~~evening~~ <sup>afternoon</sup>.

4 July at least 5 sitting on the ground between J. + M. salt lagoons and 2 seen over UOTL slough. 2 were seen along the ice on the lead, flying slowly about 10 feet up and dropping





P. DeBenedictis  
1965

Sternae longicauda

- 4 July. Barrow, Alaska - like terns as if to feed, and one  
rested in the water. One of the birds seen on the ground  
was a dull gray-buff job, probably 2<sup>nd</sup> summer, and  
all but this which were seen in flight had good tails.
- 5 July Two seen near Family Lagoon between this & S. Salt.
- 6 July Two seen along Elson Lagoon and at least 2 on  
Central Marsh. One, chased half-heartedly by a  
Pom. Jaeger, called "wēh wēwē wēū" (---~).  
Another ~~picked~~ <sup>picked</sup> tern like over a boulder of the Beach  
Ridge and twice dropped down for a food item  
which it either missed, or was so small that it ate it  
immediately. Its feeding actions attracted a Pomarine  
Jaeger which chased the L-Tair away.
- 7 July Two long tailed & one short tailed bird seen along the  
E side of Family Lagoon. Three seen between Family  
and S. Salt lagoons in the ~~evening~~ <sup>afternoon</sup>; they were quiet.
- 9 July One sitting on the tundra by Family Lagoon.
- 10 July One along the shore of Elson Lagoon.
- 16 July Two seen along Elson Lagoon.
- 19 July One near N Meadow lake and another (or more)  
along the lead in the evening.
- 20 July ~~A three-egg nest~~ A group of 6 seen along  
The Beach ridge near USC & G5 shack and  
when we looked over the marsh we found it to be  
the commonest species of jaeger (or bird). They were  
most landed and appeared to be feeding, plow like  
in the tall grass which nearly concealed them.  
They were all adults, most with tails and 1 showed!





P. DeBenedictis  
1965

Stercorarius longicaudus

- 21 July Barrow Alaska - signs of primary Flock. The  
Ciel people say they were present yesterday.  
Counted 21 from one spot, and Hamilton said  
he saw at least 50.
- 23 July 3 along the NE end of Central Marsh and 5 on the Bauli  
Ridge near USC + HS were all that remained of the above  
flock. They feed from the ground, walking slowly through  
grassy areas and occasionally picking up and eating  
some small food item, which I was never able to identify.  
The Bird on the Ridge were chased off by a Pomarine  
Jaeger (while I was ~~trying~~ to photograph them) and  
all were gone by 4 PM. All had good long tails.
- 27 July 5 in the dump near S. Salt Lagoon and 6 in Central  
Marsh. All adults feeding on small objects on the  
ground, in wet grassy areas, away from Pom. jaegers.
- 29 July One along the Chicchi Sea behind the lab and  
one along elson lagoon, both adults with tails.





Stercorarius longicaudus

1 June Meade River Coal Mine,  $157^{\circ}25'W$ ,  $21^{\circ}29'N$ , Alaska

A nice adult was perched along the creek near the village. When it was approached it flew off to the area where two Parantia Jaegers have been hanging out, and was attacked by the jagers. It flew off N along the Meade, passing to house once Kashed-like over the dunes a mile N of camp.

2 June One seen near the blowing dunes N of camp about 11:00 AM and one over camp about ~~11:00~~ <sup>1:00 PM</sup>. Two circling over the "census" plot area and another flew over me silently in the evening, but they don't appear to be staying around.

3 June One or two present near the ~~plot~~ <sup>village</sup>, seen in flight only. One seen 1 mi. S of camp about 10 PM.

5 June Two were scraping the meat off an old Ptarmigan kill that the gulls were working on 1 June. There was only a little skin with meat on the leg bones. One bird would grab this and pull, occasionally knocking off bits of meat which the other bird picked up. When they pull the tail feathers really bobbed up and down. They walked with a funny waddle and one, which seemed nervous, would "paddle its feet" up and down. The two worked on the carcass for several minutes. 4 Longtails were chasing the local Parantia Jaegers near the village, sailing boldly, and diving at and striking them with the feet. Later Two longtails were chasing the <sup>one or two others flying</sup> Parantia which were perched on the village ridge near the constantly.





Stercorarius longicaudus

- 5 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska  
One or two others seen flying, and present in the area most of the day.
- 6 June Two birds near the Ptarmigan today again today and 4 ♀ and a 2<sup>nd</sup> year bird in the village eating garbage. They are really neat, waddle like ducks. The calls include a metallic "plip plip" and a toy-siren-like "weayyyy weayyy weayyy", usually given in flight and often preceded by the "plip plip" call. Upright posture on the ground, b. + most aggressive behavior in the air. No wing raising. Can't kill them with #3 shot. Birds soaring over the area most of the day, occasionally turning after passing shorebirds but never attacking them.
- 7 June Adults conspicuous locally, especially along the Meade River near the village. Only adults seen. Watched one hovering like a kestrel over the slope behind camp.
- 8 June. Fewer in the ~~area~~ <sup>Attacking</sup> Ptarmigan near the village, the attack begun by adult and later a 2<sup>nd</sup> bird joined it. Noisy as usual. All adults.
- 9 June Several adults seen in the village and on the pools on the meade. Some aerial, intra-specific chasing. a call "kyow" rather like but high-pitched & parrotic noted from me. Don't seem to be bothering terns. One seen at an old Ptarmigan hill. Little activity in the evening.





Stercorarius longicaudus

Muddy River Coal Mine, 157°25'W, 70°29'N, Alaska

- 10-11 June A few along the River and near the village. In flight now. The Parasites seem to be getting the Best of things. Saw a lot in ~~territorial~~ flight, calling as it went, near the mouth of South creek, on Afternoon of June 11. Only adults around now.
- 12 June A pair on the tundra near the 1<sup>st</sup> lake on village creek, one off after an intruder which came by, but no territorial flight. Not many along the river anymore.
- 16 June None in evidence but still occ. pair along the river. Not vocal and seldom near the village.
- 17 June A pair landed on the tundra W of the village, allowed very close approach. A few flying over, but some lone birds evident and none seem really attached to any area.
- 18 June 4 birds together on the village flats, no interaction. A fight with Parasitic (1 of each) over the village S.
- 19 June I saw one landed on the census plot acting like it was going to regurgitate. The neck was inflated and the bird shook the neck, head down. It ~~flashed~~ <sup>glided</sup> this 3-4 times and then disappeared into a depression. I went up to it, to find a pictorial Sandpiper nest with 2 eggs and a partly broken shell near by. The jaeger was in the area in the evening, but 4 hrs. later hadn't finished its nest



nest built





Stenocranus ~~parvicaudus~~

19 June Meadle River Coal Mine, 157°25' W, 70°24' N, Alaska  
Shortly before the nest incident, ~~the~~ Parasitic and a L-T.  
Jaeger were seen fighting over the plot.

21 June A pair on the census plot all day. They hunt  
very unlike Parasitic Jaegers. flying a short distance  
- 30 feet or so, then hover 1-2 seconds like a  
big kestrel, and dropping down for something,  
or dipping and then going on 30± feet and  
hovering again. They are getting something from  
the ground - ? adult typhlids? which are out now.  
and may be looking for bird nests. When the local  
parasitic chased the Pectoral eggs at 11 AM, a ♀  
L-T. chased it away, and then the ♂ came  
up and flew along the 1 row with a very deep  
loose wing beat calling "Kioow" at each beat.  
The two were on or near the plot all day but  
are clearly not now nesting.

22-25<sup>June</sup> Occasional birds in evidence. No signs of nests

26 June One hunting Kestrel like on the census plot

28 June Two along south ridge, hunting in the  
upland area and resting on the ground. No  
territorial flights.

29 June A pair present along village creek chased  
a Parasitic, then another L-T. Jaeger out of  
the area, and gave a poor territorial flight.  
A bird to the W of here also gave a brief  
territorial flight. Not seen elsewhere, and  
none sitting yet. Territorial patrol not seen.





P. B. Breda  
1966

Stenocranus longicaudus

- 4 July Wheeler River Coal Mine, 157°25'W, 70°24'N, Alaska  
A bird chasing a Glaucous gull near south creek  
began acting suspiciously like it had a nest.  
When I went to check I found 1 egg. The bird  
flew over yelling at me but didn't attack. Didn't  
see the other bird of the pair.
- 6 July One of the local birds seen over the area  
plot briefly.
- 11 July Couldn't find the nest though adults still  
in the area.





Larus canus

31 May

Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

A strange gull came by, which I first thought was a Herring gull, near the village about 11 AM. It cawed with Glaucous Gulls and was much smaller. When I got close to it, I could see the small bill typical of a Herring Gull; the back pattern was like a 2<sup>nd</sup> year Ring-bill Gull, and the bill was all dull olive-green. It shot at and hit ~~it~~, but the #9 shot didn't ~~plow~~ it down at all.





Larus argentatus

27 July Barrow, Alaska - a bird in 2<sup>nd</sup> summer plumage in the  
dump with glaucous gulls. The 3-4 outer primaries and tail  
black and the back slightly darker than young glaucous. I  
suspect it to be Hageri because of the limited black on the  
wing tips.





Larus argentatus

17 June Macle River Coal Mine, 157°25'W, 70°29'N, Alaska  
One <sup>adult</sup> in flight over Lake Agassiz in the afternoon.





DeBenedictis  
1966

Larus ? thayeri.

21 May Barrow, Alaska. I saw 3 or 4 gulls flying over the ~~thicket~~ and went out to check them. To my surprise most were this species but one or 2 glaucous gulls were with them. There were about 70 to 100 birds in two groups out on the ice. One ~~got~~ <sup>got</sup> up and flew off when I approached and a few landed on a large ice berg. In flight they look very strange, being almost uniform <sup>dark</sup> ~~gray~~ on the top of the wing and showing no black below except on the base of the flight feathers. Their ~~feathers~~ <sup>calls</sup> were typical of large Herring-type Gulls. All the birds were adults.

26 May Note: I now believe these may have been Glaucous gulls, as the adults I have seen recently are quite a bit darker above than I had remembered.





P. DeBenedictis  
1965

Larus hyperboreus

- June 8 Barrow Alaska - saw 5 sitting on the pack ice near the west end of <sup>ARK</sup> ~~camp~~ near the beach line, 4 Ad + 1, 2<sup>nd</sup> year. 3 more flying about farther out.
- June 9. several birds sitting out in the exposed tundra near the old <sup>Voth Area</sup> ~~AFB~~ radar installation. about 4/5 were adults and the youngest were 2<sup>nd</sup> year. largest group was 12-15 together. Very social + not much if any aggressive behavior.
- June 10 2 birds were seen flying over ARK and not more than 5 birds were seen out on the tundra in the Meadow hakes - Wohlsehlag Slough area; they were singles often with groups of Pomarine Jaegers, mostly adults.
- June 12 Still a few ~~flats~~ on the VOTH Area and along the pack ice N of Family Lagoon. Saw only 3 or 4 3<sup>rd</sup> year birds, the rest adults. One bird, subadult had much gray like the mantle forming a band across the tail tip and some gray out towards the wing tip, which I take to be towards the bird called "L. meloni." Birds very social + non aggressive.
- June 14 There are several large group (10-20 birds) located along the shore of Elson Lagoon and a number of others were seen in with groups of Pomarine Jaegers. The birds as before are very social and show little display behavior. Saw one catch a lemming.
- June 15 saw a gull catch a lemming.
- June 17 a group of about 15 in S. Salt Lagoon.
- June 20 a few molting in two primaries, secondaries.





P. DeBenedictis  
1965

Larus hyperboreus

24 June

Barrow Alaska - a group of over 82 was present in Central Marsh in the early afternoon, including the 1<sup>st</sup> 1<sup>st</sup> year birds I have yet seen, although the majority (barely) were adults. On two occasions two were seen to attack Pomarine Jaegers carrying lemmings and succeeded in getting the lemming from the jaeger. The jaeger fought back but was not successful. According to Dr. Pitelka, it is highly unusual for the gulls to outnumber the jaegers. Additionally, there are 20+ birds on the St. Salt lagoon and about 15 along Wohlshlag shough, so that the gull population here is really quite high. Many are clearly non-breeders as evidenced by molt of the inner primaries.

25 June

The large group still present in Central Marsh

26 June

Virtually gone from the Marsh now.

27 June

About 300 on Barrowville dump, very noisy and more immatures involved than I had thought. Found a dead 1<sup>st</sup> year bird near the FAA Tower.

28 June

Found Two dead immatures in the area across Voth Creek from the VOTB area, a 1<sup>st</sup> year bird eaten by jaegers and a 3<sup>rd</sup> year bird that appeared to have been shot. Birds flying over the area seem to pass for the most part unchallenged.

30 June

One small group out in Central Marsh.

2 July

A group of  $125 \pm 25$  were present in the Center of Holmes's





P. DeBenedictis: 015  
1965

Larus hyperboreus

2 July

Barrow, Alaska - for the first time and was not bothered by jaegers at all to all intents and purposes although the whole group was up when they were 1<sup>st</sup> noticed. Gulls fly over the Central March-Beach Ridge being bothered only occasionally. A group of  $75 \pm 25$  (prob. +) has been at the N end of Fresh Lagoon for the past 2-3 days. Both groups contain fair numbers of subadult birds, and many are beginning the primary molt.

4 July

no groups seen today.

5 July

a large group near Lines IV A-13 towards the Barrow Dump.

6 July

no groups seen.

7 July

do.; a few flying over the area and about 10 on Fresh Lake in the A.M., and none spilled towards the VOTH area from the Barrow Dump.

11 July

Two probable ~~non~~ breeders seen on the ice of a small lake W of Kroavik and a few more seen in flight.

19 July

A number seen flying east along the lead, the largest group 10, in the evening.

20 July

<sup>About 20</sup>  
~~21-22~~ on the ice behind the lab, and few seen flying along the shore in the evening.

22 July

A group of 10-15 on the ~~ice~~ ridge behind S Salt Lagoon contained 1 small + 2 land dark mantled dark tailed immatures, which had typical Glaucous gull bills (pinkish with black tip). They are badly discolored and I suspect that they are the "nelsoni" phase of this species rather than Herring gulls.





Larus hyperboreus

25 July Barrow, Alaska - almost all seen were in a large flock of Lake Sungooak, but some birds were scattered over the area, mostly seen in flight well up in the air.

26 July a juvenile with an all black bill on Fanning lagoon





DeBenedictis  
1966

Larus hyperboreus

- 15 May Barrow, Alaska - Saw one adult circling over the exposed gravel along the Chukchi Sea; it didn't stay around long.
- 16 May F. Durham said he had seen one at the point 1 or 2 days ago.
- 19 May An all-white bird seen at the lab. 12 reported by the micromet. people - on Family lagoon.
- 20 May Two together behind the lab, an ad. and a 2<sup>nd</sup> year bird.
- 21 May about 2 with Thayeri's Gulls along the edge of the pack ice about noon.
- 23 May → Mead River Coal Mine, Alaska. Saw 4 or 5 birds near camp today from 4:30 to 5:30 P.M. They didn't seem to stay around long, however.
- 25 May A large group assembled in a lake bed N of camp. Yesterday I saw one attacking a small brown animal that acted like a lemmus.
- 27 May A few seen near camp but the big group resting in a snow-covered lake bed a distance from camp. They are very shy and get up when I am a quarter mile away. All the birds here seem to be adults, but some look like they might be Thayeri instead of this species, as I have still not been able to get a good look at them.
- 29 May Gulls flying about and now very vocal, but no large groups seen anywhere, and none on the ground today. All were definitely this species.





## Larus hyperboreus - 2

- ~~31~~ June Meads, Rivers Coal Mine, 157°25'W, 70°29'N, Alaska  
A small group of adults assembled behind the village. Ray says they are eating the leftovers from the dog-teams that were here. In the afternoon about 3 PM Phil Johnson spotted one being bombarded by a Parasitic Jaeger. It pestered it with at the jaeger and occasionally tried to bite it (the jaeger) but would not leave the area. 8 other gulls came in and the 1<sup>st</sup> acted very aggressively to them. I then noticed it was eating a ♂ Herring so I went out to check. The ~~bird's~~<sup>gut</sup> and pectoral muscles had been eaten out. The ~~body~~<sup>head</sup> & neck was not damaged, but cold and wet, as if the bird had been dead a while. There was blood on snow 3 feet from the gull and a patch of breast feathers about 6 feet away. Moving in a line from this I found a trail of white Herring feathers. I suspect the jaeger did the 1<sup>st</sup> kill and the gull later took over.
- 2 June A few adults about camp, roosting behind the village. Still have not seen any immatures here.
- 3 June A few near the village, flying about and making much noise; and along the Meads R.
- 4 June Adults along the Meads, beginning to congregate in water paddles forming on the meads.
- 5 June Congregating on the Meads, and pairs scattered on the tundra. Still only adults here. Par. Jaeger seen chasing one.





Larus hyperboreus

- 5 June Middle River Coal Mine, 157°25'W, 70°29'N, Alaska  
As more and more water comes to the surface of the river, the gulls become more numerous here. Up to 20 together. A few pairs on the flats on the far side of the river. Many eating garbage in the village.
- 6 June Up to 50 birds on the river together and feeding behind the village when there are no jaegers there. Jaegers and gulls don't seem to get along even where there is enough food for all, as far as I can see, and even the long-bills seem to be dominant over the gulls. Still no immatures.
- 7 June The local parasitic, Jaeger harassing 2 glaucous gulls behind camp in the A.M. Many feeding near the village. A few congregated on the river until break up. One saw fishing a large brown object out of the river.
- 8 June Decreased in #s. Congregating near the village and along the river but widespread. A few ♂ on the tundra. Only adults seen.
- 9 June Further decrease in #s. Mostly at the village and the village ponds. All adults. A few moving along the river. No pattern to movements.
- 11 June A pair out in the lake basin <sup>south of</sup> ~~corner of~~ ~~East~~ ridge when I got along them on the ridge. One came out to look me over.
- 12 June A pair on an island in Lake Agassiz. One took off at an awkward angle before it got to the pair.





## Larus hyperboreus

- 16 June Moose River Coal Mine, 150°25'W, 70°29'N, Alaska  
No large or groups here. A few birds ~~skipped~~ in islands in the S. part of Lake Agassiz, but none appeared to be sitting. They look as once when we come by but no attack. Few lone birds flying over. Still all adults here.
- 17 June One sitting on a sphagnum mound on the <sup>SE</sup> ~~SE~~ side of Lake Agassiz, ? nesting. Ray said his wife found gull eggs.
- 21 June Lone birds seem to be about to come more, and many are ? unsettled but no longer any sign of flocks. ? a 2<sup>nd</sup> year bird seen 19 June, but in poor light.
- 23 June Birds flying over the shallow lake basin here, but not out on the moss hummocks. Several with pronounced inner primary - outer secondary molt. As usual, all adults.
- 25 June See Sterna paradisica.
- 28 June Several of the gulls in the area with pronounced primary molt.
- 29 June One on an island in Lake Agassiz flew out to investigate me, but ~~another~~ <sup>a second</sup> bird was not seen. It returned to the island but didn't sit. It, unlike birds seen along the river, showed no sign of molt.
- 30 June Ray shot a caribou deer A.M. out in Lake Agassiz by 10 about 20 ~~birds~~ <sup>gulls</sup> had gathered about the carcass much to the consternation of the local pair. Another





P. de Benedetti

1966

hans hyperboreus  
~~argenteus~~

- 30 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska  
gathering of birds south of the census plot also  
was probably on a carcass. There are evidently more  
birds about than I had thought, but with possibly  
1 or 2 exceptions, all were adults. By the afternoon  
most of the birds had gone, with about 6-8 in  
the lake.
- 1 July A few birds on the mudflat in the Meade R.  
resting.
- 4 July Only 1-2 birds near Lake Agassiz and <sup>they were</sup> ~~sitting~~  
not ~~sitting~~ on the island where they were 30 June.  
One was ~~attacked~~ by the local Black-belly plover.
- 5 July One or two on the flats opposite North line.
- 6-11 July Two to 4 birds in the Lake Agassiz region,  
all adults none incubating. Most molting  
the inner primaries, outer secondary.

Xema sabini



P. DeBenedictis  
1965

Xemias sabini

- 11 June Barrow, Alaska - saw one flying over the tundra to the east from Family Lagoon about 1130; going low & paying little attention to anything.
- 12 June one seen flying east over the Baril area behind the ARK about 1130 today.
- 13 June one seen along the shore feeding in the open water near the entrance to Family Lagoon.
- 16 June Two seen near the entrance to Wohlsehag Slough, both of which landed on the ice.
- 19 June One seen flying W far out over the ice on the Chuckchi Sea about 2 PM.
- 21 June One seen flying E over the Micromet area in the afternoon.
- 24 June 4 birds were seen along Elson Lagoon N of Wohlsehag Slough, paired and quite vocal, they had a tern-like "kemmet" (Forster's Tern). Saw no ground display at all, but saw 3 in a chase, one later turning back to a 4th bird and one repeatedly diving at a Snowy Owl.
- 25 June One seen flying along the lead in the late evening near Family Lagoon.
- 27 June One seen at the N end Family Lagoon.
- 4 July Two seen flying N over Wohlshag slough.
- 6 July One flying east over Wohlshag slough.
- 11 July At least 4 birds seen foraging Bonaparte's Gull-like (tern-like) over a fairly large lake west of Ikroavik where they have nested in the past but the "colony" could not be located. The birds were silent.






P. D. Benedict's  
1965

Xenia sabini

12 July Bauas, Alaska - two seen flying west along the  
beach in the evening.

25 July  
~~1965~~

Two colonies located, one of ~~10-12~~<sup>12-15</sup> pairs and the  
other of 2-4 pairs. The smaller colony was about  
1 mi. W of the old gas well near Singsvick and  
the larger about 1 1/2 miles N of there. Both were in  
wet grass lake <sup>-2-3</sup> meadows, water 2 to 8+ inches  
deep, where hummocks of peat provided nestsites.  
The nests were grass lined cups, and appeared to  
have hatched as 1 young was found in one cup and  
2 chicks that may have been this species were found  
on another ~~cup~~<sup>mound</sup>; no other chicks seen but several  
egg shells noted. Both colonies associated with 2-3  
pairs of Arctic Terns. They drove away any gulls  
that came near the colony, 6-8 gulls taking part.  
They flew about over head while we were in the  
colony, occasionally diving silently at us when we  
got near nests or chicks and would sit on nests  
when we were about ~~25~~<sup>25</sup> yards away; the whole colony  
was about 400 x 100 feet and the nests widely spaced,  
many on islands in the lakes. Birds landed in the lakes  
and were often attacked by members of ~~another~~<sup>another</sup> pair. In  
addition to the feeble call they gave a series of sharp  
rough "kat" notes " — — — — " when alarmed. In the  
brief time I watched them I noted a upright posture  
with bill somewhat below horizontal, head tossing following  
a definite forward  and a forward also  
given from the water. Behavior suggests it is a typical





P. DeBenedictis  
1965

Xema sabini

25 July. Barrow, Alaska - ~~the~~ Black headed gull, with vocalization probably rather close to philadelphia. The forward was seen twice given by one bird defending a nest island and the bill tossing was given by both members of the pair one after another bird passed by. on the water birds in forward position sat low so that the open wing <sup>leading edge</sup> ~~margin~~ touched the water. The birds were quite aerial and little ground display seen. I had the impression that some of the birds in the colony were not breeding and an anomalous plumage - a bird with adult wings but a black-tipped tail was seen. One or two lone birds seen away from the colonies. Bob induced a distraction display from one bird he approached.





## *Xema sabini*

- 31 May Meade River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ , Alaska  
A breeding plumage adult flew east over camp about 11 A.M.
- 2 June A adult seen clearly at 11 P.M. and possibly another seen about 2 hrs earlier, both in flight.
- 4 June Two flew over camp about noon.
- 5 June Several small group - 4 to 2 - seen flying by in the A.M. and two on a sand bar in the River.  
One seen about 4 noon and one about 4, flying along the river.
- 6 June Becoming quite conspicuous, and the calls, intermediated between Bonaparte's gull and Arctic Tern heard often during the day. Birds flying over and occ. landing on the river, in small groups, no more than 5 together at one time. All seen have been adults in good plumage.
- 7 June A few seen flying along the ~~edge~~<sup>river</sup> in the evening as the river broke up.
- 8 June 34 near the edge of the water and over the tundra S of camp in the afternoon, one resting on the ice, about 5 resting on the ice with Arctic Terns near the pool N of the ice gain in the evening.
- 9 June First saw several migrating SE with Arctic Terns in the evening, 5 to 10. Small loose flocks, 1 to 4, occ. with Terns. No very noisy. Occ. stopping to check something on the tundra but not landing.





Zenaidura macroura

10 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska  
 5 birds feeding with L.T. Jaegers on garbage behind  
 the village. Some aggressive display noted.  
 Upright posture with bill down some 1-2 times  
 In rest post the nose is white.

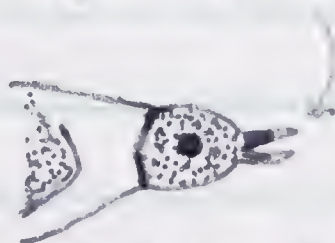


a silent, almost horizontal posture some say the bird  
 supplanting two others. The whole profile horizontal  
 and rounded.



A very aggressive bird went to an  
 upright calling "kwoak kwoak kwoak"  
 when another walked up to it

A long call given to a 3rd bird flying up to the  
 pair was:



kwoak

kwoak kwoak kwoak

the flight calls are a hum-like. "kwoow" or "kyow"  
 No interaction with the jaegers.





2. Brundage  
11966

Xema sabini

- 10 June Meads River Coal Mine, 150°25'N, 73°29'W, Alaska  
A few in flight in the South Ridge area, often well inland of the river. 4 on a lake with some water on top of the ice but ~~no~~ display seen. Very vocal as they go by. ? Nest around here.
- 12 June Two or 3 on Lake Agassiz, swimming, and some seen flying over land. Not as noisy as usual.
- 16 June Now definitely sitting on eggs on the largest island of Lake Agassiz. One flew up to attack a parent Tanager going over, then directly back to the nest. Only ducks and Arctic Terns on the island otherwise.
- 17 June Still sitting at least 4 <sup>+</sup> 8's nesting. Little display seen though not much watched for.
- 21 June Only occasionally seen on the census plot area, always flying from the Lake Agassiz basin to the river & E. or vice-versa and never landing.
- 23 June Still sitting on the island on the SW part of Lake Agassiz.
- 27 June An ? incipient colony of 3 pairs foraging in one of the large lakes in the forest opposite camp. The birds were seen catching insects on the ice and one ~~hatched~~ <sup>hawked</sup> an insect from the air. One landed on a grassy sphagnum island and in a slight upright posture scolded "tsack tsack tsack..." for several minutes, then flew off. None sitting. Associated with Arctic Terns as usual.
- 29 June Only noted once away from L. Agassiz, and only feeding





Xema sabinii

30 June

Apparently still sitting on nests and not much bothered by the local glaucous gulls. Occasionally seen going towards the Meade.

4 July

Few birds seem to be sitting, but they were conspicuous out in the marsh areas, walking about on the sphagnum and swimming on the water in shallow areas evidently catching insects. They were not seen on the Lake Basin near Southridge in the afternoon.

8 July

Still only a few birds on Lake Agassiz, and no sign of any sitting. The big cloud of birds clearly gone. A few seen on the Lake Basin south of Southridge.

11 July

No change on Lake Agassiz

13 July

A few more evident than usual, but not as many as in ~~early~~ <sup>late</sup> June.





## Rissa tridactyla

26 July Barrow, Alaska - all birds on the Chukchi Sea flying ~~east~~, one right along the shore and the others farther out. All were adults. They were mostly in groups, widely scattered, of 3-5 but a group of 13 seen and 1-2 of up to 10, and one of the larger groups was quite vocal, calling "it-a-ake" loudly and repeatedly as they flew.

27 July Most were seen between ~~4 and 5~~ <sup>4 and 5</sup> pm, about 3/4 flying ~~east~~, the rest ~~west~~ <sup>west</sup>. The largest group was 32. all but one immature good plumaged adults. Two flocks of about 12 calling as yesterday. One seen to circle ~~as if~~ to feed, shut down then continue on out. None as close to shore as the one yesterday but the wing tips could be seen on all.

28 July flock of 8 adults flying east fairly far out.

29 July one adult flying east fairly well out.





P. DeBenedictis  
1965

Sterna paradisaea

- 24 June Barrow, Alaska - One seen flying S along Elson lagoon in the afternoon, the flight flopping with deep wing strokes. The dark underparts were clearly evident and the primaries were indeed Translucent except for the margins as they are ascribed to be.
- 25 June 2 seen flying South over ARH area in the morning, one feeding (no captures seen) over the W part of Central Marsh and one seen along Elson lagoon in the morning; one seen flying along the S part of Family lagoon in the afternoon. The call is a high "kee aaaa"
- 26 June One seen crossing Dr. Pitelka's plot.
- 28 June One seen over Fresh Lagoon.
- 5 July One flying along the shore in the evening.
- 11 July Two lone birds seen in the Ikroavik region.
- ~~12 July~~ <sup>XEMIA</sup> ~~Two flying west along the beach in the evening.~~
- 16 July Two along Elson lagoon going S (east)
- 19 July 4 seen flying west along the shore by the hab.
- 20 July 1 out in Central Marsh and two feeding close to shore on Elson lagoon near Wohlsehag slough.
- 25 July Birds seen today were with Sabine gull colonies, the nests (more certainly found). In addition to the "kearr" call birds would occasionally rise high in the air flying with a deep wing stroke and calling a high pitched "kit kit kit kit....." Only one bird seen on the ground.





## Steurng paradiseae

3 June Meads River Coal Mine, 157°25'W, 70°29'N, Alaska

One seen flying over the village in the AM.  
Ten-like calls heard through the fog on several occasions.

4 June One seen flying along the Meads about 10 AM.

6 June Two or three seen flying along the Meads River.

7 June Seen along the river.

8 June About 5 entering on the ice and 3-5 fishing on the pool in the Meads R. N of the ice jam. fairly noisy. With Sabine Gulls.

9 June They have moved off the pond on the Meads R and were over Carly marshes in the village flats and seen flying inland near Itakmak lake. Don't seem to be getting much. Calls "keew" or "kip kip kip". Small groups - 1-6, flying SE with Sabine Gulls, 8 to 10 P.M., then well inland of the river. Quiet.

10-11 June Birds beginning to move out on the tundra when they are seen flying about in small # and ? foraging over the small ponds. Noisy but little display in evidence. They are ignored by jaegers.

12 June Two on a sphagnum mound in Lake Agassiz and small groups flying over and fishing in the open water <sup>during</sup> most of the afternoon.

16 June Much courtship on Lake Agassiz and fishing over the lake and near-by shallows. None apparently sitting.

17 June Little change. Feeding in some very shallow (3") pools.





## Stema paradisea

20-21 June

Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

Occasional lone to groups of 5 birds flying over the census plot area and along the river. One seen in the evening flying over the dunes 4 mi. South of camp stopped over every puddle to fish without even trying for anything.

23 June

Feeding over the shallow lake area of Lake Agassiz but not going after food after. None seen on the ground - ? nesting here, ? yet.

24 June

One seen feeding in lumpy pools only 4-5" deep on the census plot. It hovered 6-10 feet up, then dipped to water and up again. Whatever it was after was small, because the only thing I saw was a 4" piece of cass stem in its bill. ? after emerging tipulids.

25 June

Two birds over one of the larger mossy lakes opp. the North dunes regularly attracted 2 Glaucous gulls in the area, but the terns did not land anywhere.

26 June

One hovering over pools on the census plot but not seen to pick.

27 June

Three birds hovering over the large lakes in the flats opposite camp.

28 June

Chasing a ~~tern~~ Parasitic Jaeger, p.v., on <sup>L. Agassiz</sup> Agassiz.

29 June

Scattered birds seen feeding on and near most of the lakes inland of here but no evidence of nesting.

3 July

One "fishing" in the pools on the census plot.





Sterna paradisica

- 4 July Meade River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ , Alaska  
About 20-25 birds out on Lake Agassiz,  
hovering over the water and fishing. Can't find  
any nests nor see any birds sitting. A couple  
3 on the lake basin south of South ridge.  
5 July 3-4 birds on the flats opposite North Lewis as  
usual, over the large shallow lakes. They  
chase the local glaucous gull, whenever the latter  
come by.





## Uria (lomvia)

July 26 Barrow, Alaska - about 5 numbers seen to far out to identify over the ice on the ~~Chukchi~~ Chukchi Sea near duck camp.

July 27 Flocks of up to were seen along the Chukchi sea some as close as 400 yards off shore. Two landed not far out and could be identified as thick-bills on the basis of the white on the breast forming a deep V pattern.



typical of this species

Most of them were going east and all but one (which had dark annulations) were in breeding plumage.

July 28 All but 6 in one flock, and all going east.

July 29 One seen going east about 400 yards out, in flight the breast appears:



and the head is darker than the back. The bill mark impossible to see. ~~6~~ with a flock of King Eiders along Elen hagoon in the afternoon, going north. when the eiders shot, 5 turned back and landed off shore all appeared to be thick bills.





## *Cephus grylle*

21 July Barrow, Alaska - two seen fairly far out over the broken ice behind the lab over the Chukchi sea. Both landed near fairly large ice bugs, about  $\frac{1}{2}$  mile out. They look like Pigeon Guillemots and might as well be conspecific from what I could see!





P. DeBenedictis  
1965

Myiadea scandiaca

9 June

Barrow Alaska - saw my first birds of this species today. They fly somewhat between a short-ear & a Great Gray Owl, depending on how much wind they feel. Saw 2 nests close, one with 7 <sup>eggs</sup> ~~eggs~~ the other was near the <sup>Voth Area</sup> ~~old AT Radar~~ installation. When approached to about 50-30 feet the ♀ flew off and a number of Pomarine Jaegers (g.v.) quickly attacked the nest destroying certainly 2 and probably 3 eggs (leaving 2 intact). The Gowl remained about 100 yards away but the ♂ came to within about 25 feet of the nest. When the jaeger 1<sup>st</sup> approached they had a humming which they twice dropped. The second time it was dropped the ♂ owl picked it up and carried it away, perched only loosely by a jaeger, the owl having turned to the nest. The Owls must have been disturbed by our presence for when we backed off the pair (which copulated once shortly before) quickly returned to the nest & the ♀ landed near by, 1<sup>st</sup> looking it over and then settling on the eggs. <sup>They 4 or 5</sup> ~~About~~ jaegers who attempted to get at the nest were quickly discouraged by the owls, the ♂ striking one; they turned to the <sup>eggs</sup> ~~nest~~ they had already taken and finished them off, then settled down again.

10 June

visited one nest and saw several additional birds. Dr. Pitelka's 1<sup>st</sup> egg nest now contains only 9 eggs and 2 hemus carcasses were nearby. No signs of egg shells nearby. Saw one pair, the ♀ injury flying and the male in a deep-winged display flight near the Beach Ridge; the 11 egg nest is near





1965

Nyctea scandiaca

10 June Burns, Alaska - (cont.) the Central Marsh area. along the shore of Elson Lagoon about  $\frac{1}{2}$  way between Wohlshlag Slough and Brant Point we had 7 birds in sight at one time, some times with 2 ♀s in fairly close proximity; no evidence of a nest was found, but 2 ♂s giving the "Dracula" display were seen and some injury feigning was seen. The birds were not completely concerned about our presence as they often landed to within 30 feet of the Wessel but only one possible bird appeared to be at a nest site. A ♂ flew high into the air over this area calling a soft "hoo-oot" repeatedly (about 1/second) and a female on the ground squealed several times during this period. 2 ~~hunting~~ kills by Owls were seen.

11 June found a nest at the south east end of ~~the~~ Family Lagoon on a mound on a polygon ridge overlooking the Lagoon. It contained 8 eggs + a 9th was nearby in a pile of pellets; the ♀ didn't stay on when we were near and was not attached at the nest. Saw the ♂ "draculating" near the nest. No copulations seen today.

12 June little activity seen in this area. One pair seen on the ~~side~~ Family Lagoon and showed no nest signs or display; found a feeding, ~~peet~~ peeling casing area.





P. DeBenedictis  
1965

Nyctea scandiaca

13 June Barrow, Alaska - found at least 5 birds, 3♂ + 2♀, between Fannily + S. Salt Lagoons. None seemed to be nesting and one ♂ is apparently unattached. # found a scrap on which a ♀ had been sitting, on a small, bare raised polygon surrounded by a few feathers and pellets, but no signs of eggs. This pair was notable that the ♀ attacked the ♂ on 2 occasions, the 1<sup>st</sup> time knocking off a feather & the second time chasing him away and was then attacked by a pair of Pomarine Jaegers, g.v.v.

14 June Saw 4 nests today, one with 2, one with 3, one with 9 + one with 10 eggs. There were at least 3 additional pairs and 2 or three unattached ♂s. One of the pairs posed a ♂ "scoop" upon which the ♀ was sitting. Saw one ~~male~~ flying about conspicuously carrying a lemming near a female, of the above pair, and another (10 egg nest) ♂ give "diacula" display.

15 June Found a nest with 6 eggs on a mound on the top of the ridge along Elson Lagoon due East of the C.F.H. Tower at Barbet Point. The nest was surrounded by feathers as usual & the ♀ seemed quite concerned by ~~my~~ presence although ~~was~~ not dive-bombed. Saw a second pair out on the lake area, the ♀ low on a mound but no nest.





P. DeBenedictis  
1965

## Nyctea scandiaca

- 17 June Barrow, Alaska - 7 birds were seen at one time in the area between Family lagoon & the ~~SE~~ South end of S. Salt Lagoon, 5 ♂♂ and 2 ♀♀; none of them appear to be nesting, and no courtship activity was seen.
- 19 June Didn't notice as many owls in the above area today, but not as careful attention was paid to the species.
- 20 June a ♂ catching a lemming merely flew 7-8 feet and flopped down on the beach and began to eat it. Still a few unattached birds in the VOTW-Britton area, probably only 3 or 4 ♂♂ and 2 ♀♀ now.
- 22 June The area along Elson lagoon is obviously a 2<sup>nd</sup> center for non-breeding ~~owls~~ <sup>owls</sup> as we ~~found~~ <sup>saw</sup> 5 on one mound and 3 others nearby. Most are ♂♂. Still 4-6 in Britton's area.
- 23 June a very white ♂ seen in the distant Baruel area and a ♂♀ seen out toward the SE end Family lagoon in a high polygon area.
- 24 June On the mound where there were 5 owls June 22 today there were 14!!!! The mound is oblong and about 100 feet long; ♂♂ out numbered ♀♀ by about 2:1. There were two others on the ice and 3 across Wohlsehaly Slough for a total of 19 non-breeders + 2+ pairs in the area. Only saw one owl near the Micromel shark and there is a ♀ egg nest on P. Helka's census plot, plus a ♂♀ (couldn't find a nest) south of there.





1965

Nyctea scandiaca

- 26 June Barrow, Alaska - a ♂ seen crossing the ~~end~~<sup>end</sup> of Holmes's Marsh from Elson hagoon high in the air with a strikingly direct wing beat - as it crossed it was attacked in order by each successive Jaeger Pair. In the evening a male was seen flying directly and W over the ARH (no jaegers to bother it) in addition to the ♂ that has been hanging out there for several days now.
- 27 June At least 8 owls on the continuation of the Beach Ridge W of Family hagoon and about = # of ♂s and ♀s. The nest on VOTH area is probably gone as the ♂ has been? shot and the ♀ is gone. Saw a ♀ by the Barrow dump.
- 28 June Saw both of the pair at Family hagoon (SE end) and the one in the banel area is a ♀ now. Found a dead ~~immature~~<sup>immature</sup> ♀ in the level area across VOTH Creek from the VOTH area, and brought it in for autopsy. There was a live lemming under it when I picked it up! It was thin, weigh 1460 gm. and had no subcutaneous fat and the stomach was empty. The ovary was inactive. It was badly bruised on the right shoulder and about the tail, which was frozen there & out.
- 29 June The pair out in Central Marsh is actively going back and forth from the nest now, although the ♀ stays close to the nest and remains longer than does the ♂. The group of non-breeders at the W end of Family hagoon numbers at least 19, for I saw 11 on the W side of the mouth





P. De Benedictis,  
1965

Nyctea scandiaca

29 June Barrow, Alaska - of 00TH creek and 5 on the E side (where they are more scattered) and 2 on the continuation of the Beach Ridge W of Family Lagoon. None hunting but they were noisier when I approached them than they usually are.

4 July The above group has somewhat diminished, only 15 being seen, most across (on the E side) Family Lagoon. The pair is still present & active in Central Marsh and a lone ♂ is hanging on on Goose Line Ridge; One pair at the W end of Footprint Lake.

6 July Checked the Brant Point nest, finding 6 eggs, 1 newly hatched chick and 2 dead lemmings in the nest. I was not bothered by the parents. I stood at the N end of the mouth of Wollh slag slough and counted 37 Snowy owls from there - none to the NW, 9 to the NE, 16 to the SE and 8 to the SW; this includes the members of at least 2 pairs but the rest are non-breeders, which were seen up to 1/2 mile off shore on the ice of Elson Lagoon.

7 July The owls have moved back from the Micovitt area to the mouth of 00TH creek. I counted 18 in this area in the afternoon; combined with the above total that makes about 55 non breeding Owls in the area around here!

9 July The nest at the N end of Footprint was empty and no dead birds nearby. A nest about 1/2 mi. W of the lake contained 4 young ~~out~~<sup>in</sup> of the bowl and one egg. The ♂ did not attack. 25 owls were counted from the





P. DeBenedictis  
1965

Nyctea scandiaca

- 9 July Barrow, Alaska - continuation of the Beach ridge W Family lagoon and there were 6-9 birds around Foot print lake. There are a lot of owls around here! Owls were much more active in the evening than during the day.
- 10 July The group along Elson lagoon is smaller now; only about  $20 \pm 5$  birds. The Brant Pt. nest contains 3 chicks + 3 eggs.
- 11 July Didn't notice as many around Foot print as on July 9 (but not as careful attention paid). A nest with 7 young (two left the bowl when disturbed) was found along the stream channel at the NW part of Ikroavik and a nest with 6 young about 1/2 mile from here. The ♂ at the 2 owl nest bombed me twice ineffectually. One of the young off the nest snapped its bill at us + went into a "dracula"-like posture when approached; Only the 6 owl nest continued humming. 3 in the bowl. A pair at an unchecked nest along the E side of a large lake W of Ikroavik were the only other owls seen.
- 16 July about  $20 \pm 5$  along Elson lagoon. The Brant Pt. nest not checked but are told now 6<sup>+</sup> young.
- 19 July The nest by N Mackenzie lake well along. 4 young, all large, 4 are still downy, 1 has fairly long <sup>remiges</sup> ~~feathers~~ and 1 can almost fly (bob-tailed).
- 24 July Found a egg on the ground outside Pitelka's owl nest but no young. The ♀ still in the area. The Brant Point nest contains 6 young <sup>and 7-8 lemmings</sup> all well grown but





P. DeBenedictis  
1965

Nyctaea scandiaca

- 21 July Barrow, Alaska - without flight feathers. About ~~10~~<sup>15</sup> adults, including the parents of this ~~nest~~<sup>nest</sup>, along the slough but more dispersed, moving into the area ~~occupied~~<sup>occupied</sup> earlier by jaegers.
- 22 July The group that had been at the Send Family lagoon dispersed, but the Vinell people working here, which must account for it. One behind the lab had a lemming.
- 23 July The owls that had been out by the Send of Family lagoon appear to have moved into the area along the ridge by Hicomed.
- 24 July The nest on the polygons SSE of line II with 5 small young in the bowl and 1 much larger bird strolling about outside - either one off hatching or there was quite a gap between the 1<sup>st</sup> hatch and the others. Obviously no lemming shortage as at least 17 dead ones, all moderate to large, on the bowl's edge.
- 25 July Two additional nests seen west of Ikroavik. The only one checked with 6 young and 1 egg; the egg evidently infertile as the ~~the~~<sup>smallest</sup> young was several days (10±) old. Adults were seen regularly and one loose concentration was seen SE of Ikroavik. They appear to be in about the same density as closer to the lab.
- 29 July Only 3-4 along Elson lagoon and 4-5 across Wohlsehlag Slough. The pair not around the Beant Point Nest. Found a nest, no adults present, with two jaeger-eaten eggs in the polygonized area south of lines XIII, XIV, and saw quite a few adults in the area.





Nyctaea scandens

25 May Meade River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ , <sup>Alaska</sup>

About 11 I spotted a large white bird sitting on a hummock E of the native village and I walked out to check it. When I got to the air strip it ~~flew~~ <sup>flew</sup> off close to the ground with typical owl swoop and disappeared into the snow. Didn't get close enough to see much detail on it, but think it was a ♀.

Nyctea

Scandiaca





P. De Benedictis  
1965

## Asio flammeus

- 11 June Barrow, Alaska. one was flushed from the Barrow area along the E side Family Lagoon in the afternoon about 4:30. It flew off <sup>giving</sup> ~~giving~~ <sup>up the</sup> ~~up the~~ sign of attachment to the area.
- 13 June one seen fly from Family Lagoon toward South salt lagoon, landed in a low area between the latter & the ocean. Picked up the ~~tail~~ <sup>outer</sup> primaries and a tail of a bird Dr. P. Kelka identified as a male. The feathers were not weathered and were on a raised polygon in an area of snowy Owl feathers & pellets.
- 19 June One seen flying high up in the air (50± feet up) flying from the region of Browerville to the Barrow area along the road to ARL. It alternated the typical floppy wing beat with long, spiraling glides the wings out straight Buteo-like, and it spent more time gliding than flapping. I saw no dives nor any evidence of a second bird. The bird looked rather like a prairie Red-tail Hawk as it flew but other Short-ears I have seen do not ~~look~~ like this.
- 20 June Belive. Two birds to be present. Saw a very white colored (above on wings) bird flying high but in normal fashion across H. Salt Lagoon and later a second, more rufous-colored bird was seen going the same direction from the same area - the dump by S. Salt Lagoon. It, too, flapped most of the time but flew high and 1 or twice glide very briefly, but very Buteo-like.





P. DeBenedictis  
1465

Asio flammeus

21 June Barrow, Alaska - clearly two birds present as saw one with good flight feathers and 1 with a gap in the inner primaries on one side, both flying fairly high but no singing. <sup>The 1st</sup> ~~one~~ is <sup>buffier</sup> ~~whiter~~ than the second.

25 June One seen flying over the low area between the Beach Ridge and the POW site in the morning. It was in good plumage and fairly dark; as it flew over a pair of jaegers attacked it.

~~26 June~~





Asio flammeus

31 May Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

One flying over the lake basin W of camp about 10 AM and one flying N along the river about 6 PM. Both very light birds.

5 June One flew directly over camp about 8 AM.





DeBenedictis, P  
1965

Luscinia ~~svecica~~ <sup>svecica</sup>

13 June

Barrow, Alaska - a female was seen in the  
barrel area behind the animal hut before noon.  
It flew thrush like in the patches of tundra exposed  
and did not allow a very close approach;  
It flew like a Hermit Thrush. It was brown above,  
with some lighter, more rufous edgings on the  
remiges which was more obvious when it flew, and  
the tail was darker than the back with conspicuous  
rufous-chestnut patches like a redstart at the base of the  
tail; the supercilium gave it a mustached appearance  
and the breast was crossed by an interrupted dark  
band; the bill quite slender; the bird was about the  
size of a pipit but much shorter tailed, and its tail was  
fanned conspicuously when it landed.



~~Luscinia~~

Luscinia svecica





Turdus migratorius

31 May Meade River Coal Mine, 157°25'N, 70°24'N, Alaska

A gully looking, dark headed bird with little or no white in the tail was feeding in the bare areas near the village along the creek about 8 P.M.





P. DeBenedictis  
1965

Motacilla flava

27 June Barrow, Alaska - heard a racket - a rough but ringing call rather like a Redpoll but higher pitched, and looked up to see two birds about the size of longspurs but thinner, bright yellow below with dark olive backs and black tails, flying east over the Barrow area with a strongly undulating flight. They can only have been this species, judging from what I know about them and from what I saw.

29 June One heard (and a dot seen) flying N over Micromet Marsh in the evening.





## Motacilla flava

29 May

Meadle River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ , Alaska  
Found two birds feeding "with longpeaks" on exposed ~~rather~~ <sup>rather</sup> bare chinweed-Dryas, - Poa flats along the creek. They were very active, working along through the vegetation picking up food items and then flying to another patch. Their soft call notes are very pipit-like, but the loud is distinctive. Later saw one in camp and Frank Kistner saw two near the CO<sub>2</sub> shack, but couldn't find any after 8 P.M. further down along the ridge.

30 May

One in camp about 8:15, one feeding in exposed rather bare sandy-Dryas flats near the village, and one flying S along the Head in the A.M. one or two heard over camp in the afternoon, and one seen near camp about 11:30 P.M. flying S along the river.

31 May

At least 3 to 5 birds are present and two are singing now near the AF Wannigan. They are very shy and fly off when I try to stalk them. They tend to feed out in very exposed areas and often flycatch from the ground. The song is a high-pitched rapidly repeated "seee" given in the air, 30 feet from the ground, the bird gliding to the ground, wings in a dihedral and feet dangling at the close of each burst of song. They are all over the camp area, and a frustrating bird to try and collect. A very dull bird came through camp, feeding at the edge of snow and flycatching from the





## Motacilla flava - 2

31 May Meadle River Coal Mine, 157°25'W, 70°29'N, Alaska  
the ground and moving about actively all the time. One or two bright birds still near the AF Wainigan.

2 June They are still about, but only 2 birds now seem to be near camp, covering the area from camp to the village, and another pair is near the Koring Lagoon, where I heard some song, north of camp. About 5:30 I managed to collect the ♀ of the local pair. She was in pre-laying condition, the belly bare and the largest ovum about 4 mm and becoming yolk, the vit. masses and pale yellow. The oviduct was enlarged but not apparently used. She was fat! Stomach contents well chewed up but there are two beads that looked like small flies. The male is much more active and noisier now, covering a large area from the village to the coal mines, calling a lot but not singing much, which was the case from 5:30 to 6 after I got the ♀.

3 June The ♂ at the AF Wainigan already mentioned by H. H. and both birds flying about though not sticking together as closely as before. A little song. A lone ? I see over willow ground polygon from the coal mine to the creek 2 mi. S of camp. may be a different bird from the pair at the AF Wainigan.

4 June Saw the ♀ of the AF Wainigan pair carrying nest material and there is lots of activity by the mouth of the creek there.





Motacilla flava - 3

4 June. Hendle River Coal Mine, 157°25'W, 70°29'N, Alaska  
are at least two pairs here, probably using the creek  
as a territory boundary. There is also an odd bird near  
the CO<sub>2</sub> Wainwright which may be a different  
pair. Birds feeding actively, in open areas and  
probably taking small flying insects, jumping up  
to ~~flycatch~~ to get them. They are always on the move.  
The tail is wagged up and down but not fanned.  
Calls are a loud, characteristic "to-hew", a soft  
pigeon-like "chit chit", and the song, a rolling,  
rapidly ascending, high pitched phrase. "~~tee-ee~~" (oooo)

5 June No signs of them except one on the census plot south  
of camp. All over the camp-village area. Saw ♂♂  
together once and 2-3 ♂♂ are here. Act like they are  
starting to nest and they now give a hard, shaker-like  
"toach" when approached, occasionally. Feeding  
actively, especially by day. Both sexes, if they can  
be sexed by plumage, sing as I twice saw dull  
colored birds in song flight. There is some chasing,  
and the birds tend to stay in two's when they move  
about.

6 June Very inconspicuous today, possibly only 4-5 birds  
about, near the village and near camp. Feeding  
less actively than before. None seen carrying nest material  
etc., and little song. Be damned if I can sex up on  
the citters.

7 June. Only on the village flats, near the village and near  
camp. 3-4 pairs, probably.





Motacilla flava - 4

8 June Meads River Coal Mine, 157°25'W, 70°29'N, Alaska

About two pairs active south of camp, flying back and forth along the river and landing on the willows. Not much sing. 3-4 birds around the village, going out on the village flats and ridge. When a parasitic Junco flew over, one flew up, calling excitedly and "mobbed" ineffectively the juncos.

9 June 1-2 pairs active about the village. Can't tell what going on, but they are spending time in the old sod house foundations.

10 June Active in the village. ~~They yell~~ <sup>they yell</sup> at you when you get near them, a whining "weeat!". Saw a ♀ with a bill full of ptarmigan feathers near the 1, 2 stakes of the census plot. But she was very upset by my presence and eventually tore the feathers up and flew away. She was banded on the left foot. In the evening, I was attacked by a ~~song~~ <sup>song</sup> tail and when getting foot I saw her fly into a nest. The nest is of grass, partly domed, and inclined. Once the ♂ landed near by. The ♀ came out and went in to a very fluffed posture while the male, which was intensified when the other bird approached.







# Motacilla flava - 5

10 June Meade River Coal Mine,  $15^{\circ}25'02''$ W,  $30^{\circ}29'11''$ N. Alaska  
There was no response and the two then flew off. The ♂ carried nest material and she came in 3 to 5 minutes, usually in bursts, carrying short lengths of grass. Very noisy and flies right up off of the nest, and directly into it. Often gathers material very close to the nest.

11 June Saw apparent pre-cop. behavior near South creek. 2 ♂s and 1 ♀ together. The males in a very alert posture but not fighting. The ♀ went into a low fluffed posture (? solicitation) and both ♂s pretty fluffed and went towards her. A fight, then she repeated. One ♂ flew off & ? copulation. Couldn't see for sure.



Nest near camp unchanged. A pair acting like they have a nest of Johnson's transect. 3 ♂s coal mine to South creek. Can't find the banded ♀ now. When get near the nesting birds, scolded by the whining call. usually by the ♂ but once the ♀.





Motacilla flava - 6

- 12 June. Meads River Coal Mine, 157°25'W, 70°29'N, Alaska  
The nest had 1 egg at 10 A.M. and the same at 5:30 P.M. marked with ink I.  
The nest is on the top of a polygon ridge under a tuft of Eriophorum, and is composed of? bare stems, partly domed and inclined. The ♀ not concerned when I checked it but it often comes in and yells when I go towards the village.  
A ♂, the ♀ carrying Ptarmigan feathers, near the start of Phil's transect but I can't see where they are going. The members of this pair are nearly identical in color.
- 13 June Two eggs in the nest. A ♂ on the North Bluff area, but which didn't really get upset about me.
- 14 June Three eggs in the nest. Only the ♀ appears to incubate. Still can't find the nest by the coal mine.
- 16 June Five eggs. ♀ apparently incubating now. Went back at the coal mine and by south creek. In the evening a ♂ flew over excitedly near where I saw the banded ♀ but I could not find any sign of a nest, and never saw two birds together.
- 17 June ~~Five~~ eggs according to Stevens. A pair near the village. One on the far side of the meadow opposite the village dunes.
- 19 June Saw the banded ♀ at the census plot. She covers an area from the 1,2 stake to 200 ± m. S of the plot and to across the river. In the return with Steven to get her, without luck, but saw both birds.





Motacilla flava

- 21 June Meads River Coal Mine, 157°25'W, 70°24'N, Alaska  
The banded ♀ passing at ~~camp~~<sup>on</sup> the census plot as usual, but this time she went on a nest which is under a large Saxifraga pulchra in a clump of erigeron. It contains 5 eggs and is well feather lined. I'll get her yet. The pair near the coal mine seems to be in the disturbed area rather than by Phil's tunnel as I had believed. The pair in camp still incubating, but the ♀ flushes readily and spends a lot of time off the nest.
- 22 June Still 5-eggs. ♀ on, but flushed at a great distance.
- 24 June The banded ♀ flushed early and went. 5 eggs.
- 25 June One across the Meads opp. North bluff.
- 26 June The stupid bird by camp has laid a 7<sup>th</sup> egg while my back was turned. The rascal!!
- 27 June Trapped the banded ♀ by putting a mouse trap in front of the nest. She went in twice and out once before I got her. Collected the nest. The band from Hong Kong! Birds still buzzing around camp.
- 28 June ♀ still incubating. She still sits very tight. The ♂ on the census plot singing most of the morning.
- 29 June. A bird heard near the outlet of the 1<sup>st</sup> lake or village creek was the farthest inland I have observed this species. The bird near camp now has 8 eggs, but not sure when she laid the last





# Motacilla flava

- 30 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska  
The pair by camp still with eggs. The pair by the coal mine very fit by now and whenever I get near them they get up and scold.
- 2 July The nest near camp has produced young, but can't tell how many. Probably hatched yesterday.
- 3 July The pair by the coal mine still acting up though they don't give much indication of nest location.
- 4 July No change. There is still a bird by the census plot and the pair by South Creek are even worse than the pair by the coal mine. Flying over head and scolding constantly.
- 5 July One pair on the flats opposite North Bluff, evidently based on the far side of the river. Again by the bluff opposite South Creek.
- 6 July Still young in the nest by camp. There was one bird by the census plot that went out to the 3, 3 post. No longer singing. The pair by the coal mine scold as before.
- 7 July One pair on the dunes opposite South Creek.
- 9 July Two fledglings jumped from the disturbed area by the coal mine. The adults were challenged from a long distance away and are becoming a nuisance. The male bird by camp coming along, and most of the eggs appear to have hatched. The adults scold more violently now than they did





## Motacilla flava

- 9 July Meade River Coal Mine,  $157^{\circ}25'W$ ,  $78^{\circ}24'N$ , Alaska  
before I took a feedgiving. They do most of  
their foraging within 30 meters of the nest.  
Flushed one young from along the creek: ~~3~~  
Coincidentally the birds near the spot where  
Lake Agassiz empties were a separate pair.
- 10 July Still scolding near camp and by the village.  
Young in the nest yet.
- 11 July When I went by the coal mine, 2 adults  
and a young got up. There were young got up  
and eventually 2 adults & 5 young were flying  
overhead and scolding like mad. They  
are well spread. They young usually flush  
from wet areas, and are noticeably stubby  
tailed. The pair by camp still going actively,  
the parents scolding all day. They seem  
to become more and more jittery as incubation  
progresses. There are at least 6 young in the nest  
(? hatched). Skinned one more. Both parents fed.
- 12 July Still feeding young in the nest by camp.  
When I checked in the evening, ~~the~~ <sup>the</sup> ~~hatched~~ <sup>hatched</sup> were  
off & the young huddled up together, their  
backs to the outside of the nest. Both parents fed.
- 13 July Still feeding young by camp by 9:30.  
When I got back about 12:30 the young were  
gone (one egg in the nest) and there was  
no sign of any of the birds. Still 3-4 young  
by the coal mine.





## Anthus spinoletta

28 May Wheeler River Coal Mine, 157°25'W, 70°29'N, Alaska  
One seen feeding in a very sandy area with  
a little grass and bluffs just S of camp near  
the mine, along the river, about 9 AM.

30 May One heard flying over and seen in flight  
about 1 mi. N of the village in the AM.

31 May One seen and heard flying over the camp area  
about 2 PM.

(Some of the birds heard only may  
be yellow Wagtails, which do have a p.p.t.-like  
note).

Anthus spinoletta  
is now  
Anthus rubescens  
per AOU 1998





Vermivora celata

12 June

Meadow River Coal Mine. 157°25'W, 70°24'N, Alaska.

When a bright green warbler zipped by the kitchen and landed on an oil drum, I thought I had a Phylloscopus at last but when I finally got a good look at it (at the village!), it was clearly this species. "No" facial pattern and

blurred streaks on breast seen. <sup>(S. richardsoni)</sup> legs dark. No calls. It fed in willows, and tall Elymus.

Seen going south through camp (again) about 1 hour later.





Dendroica coronata.

5 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska.

A bright ~~bird~~ but less-breasted bird feeding on the ground near the A.F. Wainigan along the river bluff, usually around willow clumps. Apparently catching flies. Seen only in the A.M. When I decided to chase it, I jumped a warbler that appeared to have a dark rump and all white outer-tail feathers. but couldn't get a good look at it. All warblers gone by noon.





Dendroica striata

31 May Heade River Coal Mine, 157°25'W, 70°29'N, Alaska

A male was found near the AF Wainigan in the AM about 10. It fed with a few longspurs on the ground in tall grass, working towards camp and favoring spots where there were low willows. I collected it about 2 min. after I first figured out what it was.





P. De Benedictis  
1965

Wilsonia canadensis

22 July Barrow, Alaska - a dead bird was found between two rows of covered crates directly behind the lab. It had been dead for a while but the area where it was found had been graded about 1 1/2 weeks ago. The feathers broke down probably from the rain of 17-19 July. Saved in mummified condition.





P. DeBenedictis  
1965

Spizella arborea

11 June Barrow, Alaska. - Found my first of this species today; it was hopping along on the edge of a mound ~~on~~ a polygon ridge feeding in the wetter corner areas about 20 feet from me, and only about 10 feet from a Snowy Owl's nest at Family Lagoon. I noticed its bright red cap & latter could see the red mark on the sides of the breast & black spot on the breast. It was duller on the head than a dipping sparrow and the back was brighter and more strongly streaked, especially with light; the "shoulders" were bright reds but the rest of the back was rich brown. It was silent, and worked toward the ARH area; I judge without comparison that it was <sup>very</sup> Spizella smaller than a longspoon.

12 June Still present in same area.

13 June found an additional bird along the NE side of S. Salt Lagoon in an area of rubbish and high mounds. It fed on the ground and was not very shy. The breast spot was more distinct than on the other bird.

17 June one present in the same area as above, feeding on mounds & raised polygon on low side near snow level. heard a alarm "seep"; the 1<sup>st</sup> noise I have got from one of the birds.





Spizella arctica

2 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska  
One flushed from a pile of 4-5" willows at the mouth of  
the creek near the village. The bird jumped up on the  
willows, then flew up into the village.





## Passerculus sandwichensis

28 May Meade River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ , Alaska  
I found one bird feeding with a few longspurs in a grassy, willow ridge-top along the River, SE of camp in the AM, and later saw 2 birds, one of which chased the other, <sup>and</sup> giving a short song while in flight, in grassy exposed ridge behind the lab. The birds seen in the afternoon were 3 with longspurs in grassy-willow high polygons c. 2 mi. N of camp along the river and 4 in tall grassy polygon ridges along the river in the flat just N. of the village. All the birds were quiet. It evident will be a fairly common bird here.

29 May One seen near the lab in grassy-low polygon areas and possibly another along the Meade River in grassy-willow dunes c. 2 mi SE of camp in the evening.

30 May One or two near camp and along the creek and two or three in the polygonized sand dunes 3-4 km. N of camp. One brief chase and a little song observed. These birds seem to like grassy areas more than the longspurs. One flushed from the grass along the river near camp about 10:30 P.M.

31 May At least two were along the creek and around camp this am. Heard one song. One seen in the "census plot" area. They make puffin area where the grass is tall and they can get out of sight. I now wonder if they are going to stay around.






Passerculus sandwichensis

- 2 June Meade River Coal Mine,  $157^{\circ}25'N$ ,  $70^{\circ}29'N$ , Alaska  
SEE DONOTRICHIA LEUCOPHRYS 10-AM  
observations - birds still prefer grassy, low  
polygonal areas
- 3 June 2 singing near the village and one or two  
other seen in grass areas. They are now getting  
to be fairly sensitive.
- 4 June 2 singing near the village and 1 or 2 flushed  
from areas of tall grass. They are especially  
#3 along the airstrip and in the flat N of the village.
- 5 June 2 singing from the lake basin S of the South  
Ridge and a few near the village as usual, in  
the very heavily grown over dense woods, especially  
where there is mats of low willows.
- 6 June Singing near the village creek as usual.  
Parent in weedy-grassy areas, but shy when on the  
ground.
- 7 June Heard and seen near the village and on the  
village flats
- 8 June Wide spread but scarce over the village flats.  
One singing S of South Creek.
- 9 June 3-4 singing and flushed in the village flats and  
where they are widespread.
- 10 June One or two near the census plot. A ♂ near the  
generator shack and 1-2 ♀s in the flat south of  
South ridge
- 11 June At least 3♂s in the flats near the South Ridge.  
♂s not singing a lot. Birds in grassy areas <sup>near</sup> willows





Passerculus sandwichensis

- 16 June Mlade River Coal Mine, 157°25'W, 70°28'N, Alaska  
Wide spread in grassy areas, the ♂s singing. Mostly along L. Agassiz.
- 17 June Several ♂s in the village flats. Not singing on the far side of the river, but? weather.
- 21 June One singing on the census plot for the first time. Probably from a pair by the coal mine.
- 23 June Two males singing from the west side of Lake Agassiz in grassy-willow areas.
- 25 June Found a partly domed one nest -  - under a tuft of tall grass containing 5 pale blue, heavily spotted eggs. The nest was well lined. I was unable to see the bird flushed off the nest, but a pair of Savannah sparrows were very excited about my presence near the nest.
- 26 June Found a 5-egg nest near the coal mine. The nest was a simple cup, feather-lined, nearly covered over by tall Elymus. The ♀ flushed at 3 feet and was very hard to see. She didn't come back until some time later.
- 28 June All but one egg in ~~the nest~~ <sup>the nest</sup> by the coal mine has hatched. Parents chipping loudly in the area.
- 3 July Only two young in the nest by the Coal Mine now.
- 1 July A pair, carrying food, about 2/3's of the way down the village flats. Apparently nesting at the inland side of the willows, not good about keeping the nest hidden.
- 6 July Still two large young in the nest by the coal mine, ~~all the~~ <sup>Collected</sup> ~~the~~ <sup>all the</sup>





Passerculus sandwichensis

6 July Mendota River Coal Mine, 157°25'W, 70°29'N, Alaska  
Collected one. They nearly flushed when I reached  
for them, and have only tracks of down.





P. DeBenedictis  
1965

Passerella illiacae.

- 9 June Barrow, Alaska - found one on a gravel pit with turnstones feeding on the ground. It was bright silver gray head with a rufous-reddish back + bright tail and bright rufous streakings ventrally - according to Dr. Pitelka this is the "local" race zaboricae.
- 10 June still present, seen about 2 PM in the same area, scratching in the exposed grassy area near snow drifts.
- 11 June still present in same area.
- 13 June a Foxsparrow in the same area was of the same general pattern but in a much duller plumage, the streaking quite dark and the throat reddish; it looked unlike the bird previously seen but could have been the same bird much dirtied up.
- 15 June still present; not checked yesterday.





Passerella iliaca

4 June Meads River Coal Mine, 157°25'W, 70°29'N, Alaska  
One feeding along a cat road near the village, out  
in the open scrubland, in crushed Elymus, about  
noon. It was the gray-headed, rusty-backed type  
of central Alaska. One seen near the census  
plot about 11 PM was in the same plumage as the  
bird seen in the village, and resting in a small clump  
of willows.





P. DeBenedictis  
1965

Zonotrichia leucophrys

10 June Barrow, Alaska - a single pink-bellied, light bodied  
bird was seen on two occasions during the day  
near the animal hut; Dr. P. Helka, who had seen  
it yesterday, said he heard it sing. It associated  
with longspurs and was quite alert, ~~and~~ <sup>feeding</sup> in the  
open ~~fields~~ <sup>spots in</sup> the tundra.





\*

Zonotrichia leucophrys

30 May Meade River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ , Alaska

Two feeding with longspurs in grassy regions along the creek N. of camp by the village. Both fairly shy, but covering much territory in their activities.

31 May At least two in camp (one here last night) and along the creek and one in the "census plot" area. No song. They feed most along the edge of grassy areas where the ground is bare, and are more active than the average longspur. They appear much slimmer in flight. Two together under the AF Wainigan about 9 PM.

1 June Still at least one near camp. Thought I heard song once.

2 June There are more here than I thought. Two or three singing on the far side of the Meade N. of camp and 2  $\sigma$  around camp, 3-4 in the flats N. of the village along the river, 1-2 in the polygonal area W. of the village, and 2-3 in stabilized dune-bluff area 2-3 miles N. of camp. I suspect most are paired and no flocks are evident.

2 June There were two+ birds along the creek, one in the flats N. of the village, and one+ on the bluff 2 mi. N. of camp this AM. Still no song. Still one near the "census plot." There are a lot around!

3 June One between camp and the AF Wainigan about 1 PM.

4 June Two in the village, both with gray lores and unjoined eye stripes.





Zonotrichia leucophrys

- 5 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska  
To my surprise they have begun to sing. One near the river by the coal mine began singing about midnight and continued off and on until at least 8 A.M., and another singing on the far side about 1 mile south. A bird came through camp and sang from the wires. At least one in the village.
- 6 June. One or two in the village. One singing a little in the A.M. ? Will they breed here?
- 10 June One singing about 1 mi S of camp on far side of the Meade River.
- 11 June One singing and feeding in willows along the edge of the Meade River from the census plot to South Creek area. Sing.
- 12 June One singing near the coal mine c. 11 A.M. and a ~~one~~ <sup>one</sup> seen there in the evening. A ? sparrow with Ptarmigan feathers in its beak was seen there.
- 13 June One singing from the far side of the Meade about 2 mi. N of camp and two <sup>one singing</sup> near the 1 stake of Phil's transect. One in camp.
- 14 June One near Phil's transect, singing from the top of the stacks
- 16 June One near Phil's transect. Singing from the far side of the Meade about 1½ miles from here.
- 17 June Singing from the far side of the Meade. Observed some and scattered along the Meade. 4± ♀s here.





Zonotrichia leucophrys

- 19 June Meade River Coal Mine.  $157^{\circ}25'W$ ,  $70^{\circ}24'N$ . Alaska  
A bird singing from the census plot much of the A.M. in the afternoon saw two together right along the edge of the bluff. One singing by the coal mine.
- 20 June One now singing from the village. Song from near the coal mine.
- 21 June Found a nest with 4-eggs under a tussock of Elymus in a patch  $1\frac{1}{2}$  foot-tall Salix pulchra by the coal mine. The ♀ bird flushed gave no distraction display and was very inconspicuous. A bird sings along the river by the I.B. stake in the A.M.
- 22 June Still 4 eggs in the nest, a bird on.
- 26 June " " " " " " " " " " A bird singing in the willows across the Meade opposite the census plot.
- 27 June At least one in the willows opposite camp.
- 28 June Still incubating. Its lighter than before.
- 30 June Still incubating. Birds occasionally singing from the far side of the meadow.
- 3 July The nest has young now, but they are small, not over two days old; probably only one. Bird seen near the start of Phil's transect in the mid-afternoon.
- 4-5 July Occasionally singing from the far side of the Meade.
- 6 July Still 4 small young in the nest, all downy. One bird incubating.





P. DeBenedictis  
1965

Junco oregonus

12 June

Barrow, Alaska - one was found in a highly polygonized area along the NW end of Family Lagoon adjacent to the next lagoon; it was feeding on the lee of the raised polygons and was hard to approach. It was pale-feral, - gray with a darker face and the hood was clearly set off against pink sides; the back was dull ~~of~~ brown. I suspect it was a J. o. nevadensis due to the darkness around the bill.





Junco hyemalis

3 June Meade River Coal Mine, 151°35'W, 20°29'N, Alaska

A male feeding in a bare patch along the creek about 11 A.M. A well marked bird.

4 June Still in the same area this A.M.

5 June A ♀ that looked like cismontanus was in camp today - much brown on the back and the sides a bit pale. Clearly a slate colored bird. Only one was seen. It was in the same area the ♂ was seen earlier.





DeBenedictis P  
1965

Calcarius lapponicus

9 June

Barrow, Alaska. saw a few birds near ARH feeding in open patches of tundra and around the ~~foot~~ animal shelter. There were more males than ♀s and they look to be paired; saw an occasional ♂ give flight song, rather like a snow bunting but more trilling with a tail towards the end. heard notes given from the ground, the "few" and the rattle and a rather Carpodacus finch like chirp.

10 June

a few birds were seen out in the Meadow Lakes area, but they were generally quiet, in the late evening; not as much activity around the ARH area.

11 June

saw a bird carrying nest material but light was not good to tell its sex; there is about a 50% increase in #s from yesterday P.M. in the ARH in the barrel area. watched one fight. the birds first were fighting on the ground. jumping towards each other and locking claws. Two postures, one that looked like a begging juvenile and one that resembled the hunched posture of a gull, but with the wing  $\frac{1}{4}$  open and drooped were seen on the ground; in the latter the tail was raised somewhat, and fanned  $\sim \frac{1}{2}$ ; when quiet they fell flat on the ~~grass~~ <sup>snow</sup> and often opened the wing, flat on the snow, away from their opponent. In the air they flapped slowly, and frequently tumbled as they did on the ground; after the fight one sang; birds sing both on the ground and in the air; they are increasingly noisier, this time of all their vocalizations. A similar fight seen about 4 P.M. involved birds which





P. DeBenedictis  
1965

Colaptes Laponicus

11 June Barrow, Alaska

remained in a more upright position; saw both fall on the snow one with the wing towards the opponent open. Birds very quiet in the afternoon.

12 June Other than there being some song, little feeding activity seen; sex ratio seemed more balanced today.

13 June little change from yesterday.

14 June Saw several birds hop instead of the usual walking. They were quieter than in the past few days (due to wind?) and no signs of nesting as yet.

15 June Very little song + other activity considering the # of birds seen.

16 June a little song flight near the bare area. Only one or two birds, logging the tundra, on the Kach ridge in the morning. Birds not noisy at all in the afternoon. A female feeding out in a small (6 sq') of exposed grass was flushed by a lemming which ran under the longspine.

18 June Some what more song but little change in activities from previous days.

19 June Saw no unusual display but the species was quite noisy. An egg found out on the ground, <sup>June 17</sup> was apparently this species as today I kicked a ♀ off a freshly lined but empty nest. On June 17 the grass cup had been complete; the cup was better developed and there were 4-6 small white (? snow owl) feathers in the cup, on which the ♀ was sitting. The <sup>nest</sup> cup was placed back





P. D. Benedictis  
1965

Colaptes auratus

- 19 June Barrow, Alaska - a overhang on a high polygon facing W and was open only to the west. The ~~egg~~ was cool when found and now cold; I was about 4 inches from the nest & may have been kicked out when I flushed the ♀ the 1<sup>st</sup> time.
- 20 June To day when I looked in the nest there was a lemming looking out at me! Found a 2<sup>nd</sup> egg like the 1<sup>st</sup> found outside the nest, ~~and a egg~~ <sup>outside the nest</sup> and a egg brighter, more-reddish spotted inside the nest. Don't quite know what is going on here! No other evidence of nesting except for ♂ song.
- 21 June The nest now empty. Hamilton found a 2<sup>nd</sup> nest containing 5 eggs. It is in a lemming burrow on the W side of a raised polygon at the top of the slope; the nest is bulky and lined with 2-4 owl feathers. Considerable song but no other noteworthy display.
- 22 June A lemming has run its Burrow down through the 5 egg nest above, destroying the entire contents. Song was little in evidence today and there was little other display noted. Some birds are still far from being attached to an area.
- 23 June Very silent. One seen being chased by a Dunlin.
- 24 June Saw one being chased by a dunlin, g.v. Little change in activity today.
- 25 June Not very noisy today. Hamilton found 3 nests I have not seen, ♀ none.





P. DeBenedictis  
1965

Calcarius lapponicus

- 26 June Barrow, Alaska - Watched 3♂s & 2♀s on P. telha's plot - one male covered 8 acres in flight songs but seemed to be attached to the area. both ♀ watched were loosely associated with a ♂ but showed interest only in feeding while I watched them. In the evening Hamilton and I saw a ♀ carrying grass and found a nearly completed cup in the Barrel area behind the lab. Saw 2♂s side by side on 2 separate occasions.
- 27 June Saw several feeding pairs and 2♂s together on 3 occasions in the barrel area and flushed at close range a ♀ sitting on a nest with 4 eggs. the nest was well lined with feathers and was in the tallest grass on one of the undisturbed ridges in an area heavily transversed by tracks, etc. Pairs seen in the afternoon were feeding and the only nests seen had been found earlier by Hamilton.
- 28 June Found a nest with 5 eggs about 100 yds. S of the above nest located under a tuft of grass on a very disturbed clump of mud! No change in the above nest. Birds don't look very territorial but saw one male silently and successfully displacing a 2<sup>nd</sup> ♂ merely by hopping towards the latter.
- 29 June The nest we found June 26 is now complete but empty. These birds are very variable in breeding condition as it is still possible to find groups of 2-3♂s together and 2-3♀s together with much trouble. They were not very noisy today and no large groups were seen. No change in any <sup>nests</sup> checked.





P. DeBenedictis  
1965

Calcarius lapponicus

- 2 July Barrow, Alaska - the pair behind the lab is gone and the nest still empty. Almost no song today and most birds appear to be non-breeders.
- 3 July A nest with 4 eggs was found in the VOTH area by Dr. Pitelka. The ♀ came in and looked very concerned but no ♂ was seen.
- 6 July for a change heard no song today, even though the weather was fairly good.
- 7 July Didn't hear a song. The nest found June 26 probably abandoned. Birds were not singing in the VOTH area in the afternoon. A 2 egg nest found by Hamilton between semi; pul. Nests 1 & 2 now contain 1 egg & 1 chick. Little other evidence of nesting seen, but also little flocking.
- 9 July Above nest unchanged; a nest near pusillus 20 contained 3-4 live and 1 dead chick yesterday and all were dead today; no longspurs seen in the area on either date.
- 11 July Longspurs were widely but sparingly distributed in the Ikroavik region and a nest, attended by the ♂ contained 3 large chicks (pulli) and 1 egg, probably infertile. No song.
- 13 July The 4 egg nest found July 3 broken up.
- 15 July The nest found 27 June contains at least 3 young about ready to leave the nest and the ♀ were seen in the area. The nest found 28 June appears to have been broken up.
- 17 July <sup>July 27</sup> This nest empty and a ♂ in the area, alarmed by my presence; Hamilton's 1 y nest empty. No young seen.





P. DeBenedictis  
1965

Calceus lapponicus

23 July Barrow, Alaska - saw 1 or 2 in such heavy molt they can barely fly. ♂s getting very ratty in plumage.

26 July About as common in the Ikroavik area as anywhere, and little indication of their nesting. Several seen with very stubby tails but they appear to be adults. Two seen looked like median head stripes and appeared very strange, almost like Savannah Sparrows.

29 July Saw at least two bob-tailed young by AACs about 6 pm.





Calcarius lapponicus

Alaska

23 May Meade River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ ,  
heard a song which was their song  
(? probably) and Bunting from the village,  
about 4:30 P.M. Ray earlier said he had  
seen 4 small dark birds flying over.

27 May. Heard and saw about 15 birds, most 3  
together, along the Meade R. They were flying  
about, fairly Noisily, and there was a little  
song, but not much of it prolonged. Saw  
at least 4  $\sigma$ 's, all flocked in with  $\sigma$ 's.  
They were feeding mostly on exposed areas  
largely grass to dryas and scattering willow,  
on dry sandy soil, but some plants were  
seen on the snow ~~and~~ <sup>around</sup> tufts of Poa  
sticking out of the snow. Birds flying over  
generally stop and feed on the large  
patches of exposed ground, and they seem  
to prefer the barest spots, although these are now  
the most exposed area - i.e., the preference  
may be imposed rather than choice.

28 May Most of the birds were seen in the area  
of exposed polygon ridges and sandy-dryas  
ridges near the 1<sup>st</sup> creek entering the Meade R.  
SE of camp this A.M. There were at least 3  $\sigma$ 's  
in the group, and several of the  $\sigma$ 's sang a little,  
probably from the ground when the sun came  
out. One or two seen flying along the river.  
In the afternoon a small flock was seen on











Calanus lapponicus ~3

30 May Meade River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ , Alaska  
and I began flushing obviously unaware birds from  
clumps of willow 4-5" tall and from places where  
Sedgwick was along the spaces between clumps.  
The birds jumped up and flew off about 12-15  
feet, fanning the tail like they were coming off  
nests, and perched out on the snow. They did  
not become very active after this but I didn't see  
any go to bed again later. A few birds were  
jumped like this between 10 + 10:45 as well.  
Birds do sleep in the arctic!

31 May Perhaps a little increase in #s but hard to  
tell considerable song flight and the flocks have  
essentially broken up entirely. Lots of ♂♂  
chasing but little courtship. If this is all we  
get, they will be scarce when they move out onto  
the tundra. No sign of nesting activities.

1 June Birds fairly quiet today, probably because of  
the weather. ~~There is~~ <sup>There is</sup> not much change in behavior  
from yesterday. I occasionally hear a high pitched  
squeal which I think is part of the ♂ courtship,  
but haven't seen a bird in the act, yet.

2 June Little change. More dissociation of the  
flocks and some birds seem to be paired.  
Little song in the AM but lots in the mid-  
day period. No nesting activities noted. They  
are everywhere the land is exposed, and probably  
a little increased in #s from yesterday. ~~to the point~~ <sup>to the point</sup>





Calcarius lapponicus - 4

2 June Meads River Coal Mine, 153°25'W, 75°29'N, Alaska  
Little change in the P.M. Saw several long flights  
between ♂s near the village. The two would face  
each other, then fly up 1-3 feet, feet at  
each other and each trying to peck the other on  
the head. Lots of song from individual males  
but most birds are quiet. They have one  
note that sounds a lot like the call of a  
house Finch (Caerpedacus mexicanus).

3 June Birds still active near the village but quiet  
near camp. Some song and a few ♂♂ flights  
seen. Little evidence of flocking. In the  
evening walked along the Middle S of camp.  
Here the birds are less vocal and more  
social. Several groups of 5-8 birds were  
seen and no fights. Flush birds from close  
at hand frequently but none act like they  
are nesting. Hang out on the snow where the  
polygon ridges are being deposited.

4 June No change from before by the village. Lots of song,  
and a few flights. Birds becoming more dispersed  
as the melt progresses.

5 June Only 3-4 pairs in the 30+ acre census plot  
and this seems to be a characteristic density except  
at the village where they are much more common.  
Song began about 2 AM and was essentially done by  
4 South of camp. Saw a ♀ soliciting but the ♂ was  
not interested. None carrying nest material yet.





# Calcarius lapponicus - 5

6 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

Birds seem particularly concentrated near the village, where they are especially common in the dense stands of Elymus. Little ♂♂ fights but some aggressive behavior. ♀ feeding behind camp eating bread, Carex seeds; ~~and~~ not very successful at finding food.

7 June. This is probably the most widespread of the locally breeding species; est. male density around 1 pair/acre in the high tundra and a few birds in the low areas. Not much song in

8 June the afternoon and they are hard to count then. plenty the evening. Occasionally jump a female that looks like it might have a nest, but can't find anything. In the evening while looking for the goldfinch, I saw a ♂ with grass in its beak, which it quickly dropped and another male continuing a non-reciprocal ♀. The head reared and the wings fluttered. This is similar to an aggressive posture, except the the wings are fluttered, which I also saw several times. One or two fights. They are out on the snow eating spring-bills with Semipal. sandpipers.



courtship



aggressive posture.





Colaptes lapponicus - 6

- 9 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska  
Widespread. quite a bit of singing in the A.M.  
No courtship activity noted. Still highly concentrated  
near the village in the Slyms. As the ground is littered  
with seed here, this is understandable. Flushed  
a ♀ that went into a distraction display twice, but  
couldn't find a nest. Both birds of the pair  
highly disturbed by my presence. ♀ looks like it has  
an incubation patch - ragged belly.
- 10 June Flushed 20s different ♀s carrying grass  
around camp in the evening but didn't find  
any nests (I did this very hard, either). ♂s  
singing a lot.
- 11 June Found a nest of a pair part on the census plot.  
♀ carrying Ptarmigan feathers to it (empty)  
NEST 1. about 10 AM and an egg there about 2 AM.  
Saw one ♀ with grass on South ridge and a  
♀ with Ptarmigan feathers near the air strip.
- 12 June Saw little activity W of camp in the afternoon  
though they are #ous and the ♂s singing.  
Good action on the census plot. NEST 1 with  
~~two~~ egg, marked 1+11 today. One is larger than the  
other. No longspur in the area but a ♀ with  
grass in its bill seen 50 ft from the nest. No  
other nesting ♀s on the plot and few ♀s seen  
at all. ♂s very noisy. about 9 pairs / 30 census,  
probably about average density here, but they  
seem more #ous near camp.





Calcarius lapponicus - 7

16 June Meadle River Coal Mine, 157°25'W, 70°24'N, Alaska

Very little in evidence during the afternoon. Found ~~a nest~~ with 5 eggs on the SW side of lake Aggassiz under a willow on a polygon tundra margin. The nest on the census plot had 6 eggs and the ♀ here was the only one I saw the entire census period, except the ♀ between Phil's transect and the 1/1 stake, as last time, and couldn't find 1/2 the ♂s that were here before.

17 June Found a 5 egg nest on a high polygon ridge under a willow W of the village. Little activity.

18 June Found two 5 egg nests on the village flats. Both on polygon tundra under Eriophorum tufts, one under willow, one not. Both nests well feathered. Several other ♀s seen here.

19 June The ♀ still incubating, and gives a distraction display when I approach. One other ♀ seen on the plot and only a few males. Essentially no song any longer. Yesterday saw group of 3 ♂s in the village flats and today saw 2 ♂s, prob. both non-breeding, near the census plot. Together. I now suspect few birds actually venturing on the plot. but why?

20 June A small group of birds by the village but the large assembly of ♂s are gone. Found a 5 and a 4 egg nest near the far end of Pitelka's Trap line at Lake Ikmarkrak, both under Eriophorum tussocks on polygon tundra (near the top). Little song.





Calceus lapponicus

21 June Meade River Coal Mine, 157°25'W, 70°29'N, Alaska

A group of 3-4 ♂s and 1-2 ♀s on the census plot obviously non-territorial birds, the ♂s going long distances when flushed, the whole group working along the wire. By watching every ♀ long enough I could find 3 nests, all under *Eriophorum* tussocks on the tops of polygon ridges. 5, 5, and 4 eggs. The ♀s are covering large areas around the nest in their foraging, and sit very tight when they are on. All nests are well feather lined. In the afternoon watched a ♀ feeding and preening, then fly ~~down~~ nearly a mile. Little song all day. ♂s follow me through the plot giving a two part anxiety note and gathering in 2's and 3's, without fighting, even when all appear to be territorial. Obviously, nests are the only way to be sure of breeding population here.

22 June

Caught a ♀ in the trap

by the coal mine.

The tracing of the wing is fully opened and flattened.

♀ had evidently laid 1 clutch and was just starting the

2<sup>nd</sup>, legs laid, 1 egg enlarging.





Colaptes lapponicus

- 26 June Meade River Coal Mine,  $157^{\circ}25'W$ ,  $70^{\circ}29'N$ , Alaska.  
One nest on the census plot now has 2 young and two eggs. The 6-egg nest robbed, the other with eggs. ? There is a ♀ just off the plot that almost certainly is not nest and one near the SW corner that probably is but which eludes me. Probably 6-10 ♂s on the plot in addition to ♂s associated with ♀s. They feed in a greater variety of habitats than any other species on the plot.
- 27 June Wide spread across the River. A few feeding on the muddy surfaces between the willows along the river.
- 28 June Found a 3-egg nest on the census plot, possibly a 2<sup>nd</sup> clutch. One more nest starting to hatch. The ♀ by the 1,1 stake still doesn't seem to be nesting, and couldn't find the ♀ by the 5,5 marker. Birds are going 200-250 m. ~~away~~ from their nests to feed. Still estimate 3-6 census ♂s on the plot but hard to be sure because they are so motile now.
- 29 June Very common in the Salix pulchra along or close creek. More ♂s than ♀s were seen, and none were seen on nests. One along the lake ~~W of~~ <sup>W of</sup> the lake Agassiz. Chased a Redpoll that landed near it.
- 30 June The 3-egg nest on the census plot with 3 eggs still. 2-3 birds seen, eating mosquitoes on the ~~flats~~ Camularia-Litorea flats by the census plot. ♂s now much more conspicuous on the tundra than





Calcarius lapponicus

- 30 June Meade River Coal Mine, 153°25'W, 70°20'N, Alaska  
before and singing has stopped.
- 1 July Very common on the village flats and a few  
on the village dunes. Both ♂♂ and ♀♀ out,  
and rather social. Didn't see any nests and  
no sign of ♀ carrying food.
- 3 July All the nests on the census plot now have ~~eggs~~ <sup>young</sup>.  
The 3 egg nest with 2 young and 1 egg. Didn't see  
any odd ♀s, and the visiting ♀s are going as far  
as 100 m. from the nests to get food. The  
pair near the 1.5 marker and the ♀ near the  
1.1 marker not seen. But still 2-3 ♂♂ in the  
area.
- 4 July Still 3-4 birds feeding on the Cornicularia.  
Cetaris flats by the black-belly wet and also  
several birds out on the sphagnum dunes and  
mounds in Lake Agassiz. They are widely  
distributed near the river everywhere and are  
the conspicuous bird inland in the region  
south of Sweet Creek. As on the census plot, they  
seem to be about 3 ♂♂ for every 2 ♀♀. No  
nests found.
- 5 July Conspicuous but not singing on the flats opposite  
the North dunes. None seen with food. They are  
mostly in the dunes, Ziophorum flats and the  
Cornicularia flats, but also in the willows along  
the river to a considerable extent. Not conspicuous  
out in the lakes, perhaps because there is no open





Calcarius lapponicus

5 July

Meadow River Coal Mine, 157°25'W, 70°28'N, Alaska  
Sphagnum thum at lake Agassiz. A ♀ with  
food seen along the river bluff in the evening.

6 July

There now appear to be 2-3 non breeding ♀s  
on the census plot including the ♀ near the  
1, 1 marker. The ♂s were scattered, mostly in  
the Sphagnum flats by the phone nest, and along  
the river bluff near the 1, 6 marker. The  
nest closest to the river evidently has been robbed,  
the lining and inner part of the cup pulled out  
and about 1 foot from the original site. No young  
birds found in the area, but a ♂ was still present.  
The recent nest failure had only 1 large young  
and a pair were in the area; couldn't find any  
other young. The other nests appear not to have  
fledged any young. They are getting larger, many  
to leave in all but the 3-egg nest. No song.





1965

Plectrophanes nivalis

15 June

Barrow Alaska. Saw 2 birds together fight "tooth & claw", one pulling on wing feathers of the other and the two tumbling on the ground and low off the ground for several seconds. When they separated they resolved into a ♀ which chased an ~~extra~~ ♂ away. They were silent saw a pair ~~investigating~~ a hole in an old oil drum and have seen this on several additional days; The song is throaty reminiscent of a Geospiza and the calls include a longspur like rattle and a throaty "few".

18 June

Saw a male and a ♀ fighting near the lab in the morning and still many birds apparently investigating nest sites.

19 June

Saw one fight and a male with a large ? insect in its beak, which it appeared to eat.

20 June

Saw a ♀ carrying wet, muddy grass blade to a beat up old can along a road, into which she took and deposited the grass. Saw two sexual fights and the ♂s are very vocal.

22 June

the nest in the can is increasing in size, now a well defined but unlined cup. No unusual behavior noted - just song and occasional fights between members of pairs.

25 June

a ♀ landed on a ~~old~~ oil drum near a ♂ and went into a beg posture, but was ignored by the male.







P. DeBenedictis  
1965

Plectrophanes nivalis

- 7 July Barrow Alaska. ~ As still singing but not as loudly as earlier in the spring. They sometimes give a sharp "peep" note, rather like a Black Phoebe, in flight.
- 11 July Very scarce, almost absent, south of Footprint Lake.
- 15 July a fledgling begging food seen behind the lab. shortly before noon today.
- 21 July A nest in the lab area contained 2 eggs and 1 small young bird. 1 Fledgling seen 20 July.





DeBenedictis  
1966

Plectrophenax nivalis

Barrow, Alaska

- 14 May 1 Singing in camp. May 1 or 2 others here.
- 15 May do. Saw one today
- 16 May do. About 4 PM found a flock of about  $30 \pm 5$  feeding on exposed high polygons near S. Salt lagoon. The area they were in was mostly lichen covered, with little grass but much ? willow mixed in. The birds were very shy and flew off when I started towards them from 100 yards away, calling noisily. Disappeared towards the village.
- 17 May There were at least 4 birds singing in the lab area this evening. Didn't see any females.
- 18 May Quiet today two or 3 birds singing near the lab. Nothing on the tundra
- 19 May little change. Still all birds present appear to be males.
- 20 May At least 4-5 birds in camp. Saw a little fighting behind pitelka's lab. 2 ♂s, snow-bathings close to each other, kept about 6 feet between themselves except when one ♂ would posture, a crouch with the wings closed, head down tail up and closed, towards the other, calling a low "zzzzzzzzt" repeated 2 to 6 times. No song. This male would then get up and fly at the 2<sup>nd</sup>, diving at it to within 1/2 foot. The 2<sup>nd</sup> ♂ would then fly away. This repeated 4 times in c. 3 minutes, when 2<sup>nd</sup> ♂ left. A 3<sup>rd</sup> ♂ came in and was ignored.





## Plectrophenax nivalis

- 24 May Mead River Coal Mine, 157°25'W, 70°29'N, Alaska  
One bird singing outside the Dumbkaniqan  
in the AM c. 7:30. Not seen again.
- 26 May One flew over the camp area when the  
AM plane from Barrow came in. Not seen  
again.
- 27 May. Two birds were feeding in a patch of exposed  
tundra with a group of Ptarmigan behind  
one of the generator sheds in camp, about 5:30.  
Hiking along the Meade R., I saw two  
together just beyond the village with a flock  
of longspurs and a lone bird somewhat  
beyond this. Only one was a ♀. No song.
- 28 May 1 singing in the village. Phil Johnson said  
he saw one in camp about noon.
- 29 May At least 3 birds near Atsatsuk, including  
one ♂ singing vigorously from an old building.  
but none seems to be spent much time about  
camp. Feeding birds with longspurs on exposed  
grassy-dry flats along the creek S of the village.
- 30 May All birds now were in the native village and along  
the creek near there.
- 31 May One or two near the village. One was ~~singing~~ singing.
- 2 June Two in the village.
- 3 June Not much in evidence at the village.
- 4 June A pair in the village. The ♀ looking over oil drums.  
Very inconspicuous now.
- 5 June A male now singing from the coal mine building.





Plectrophenax nivalis

- 7 June Meade River Cond Mine. 153°25'W, 70°29'N. Alaska  
The ♂ of the pair in the village feeding near the  
A.F. Wainigau.
- 8 June do.
- 9 June do. the ♀ seen near the village. Not long  
recently. Very inconspicuous and uncommon here.
- 10 June Only near the village.





## Euphagus carolinus

9 June Meads River Coal Mine, 151°23'W, 70°25'N, Alaska.

A well marked ♀ with deep yellow gold eyes seen feeding on a polygon Midge between camp and the A.F. Wainigan. Frank said he had seen it in camp earlier. It flew off giving typical Blackbird call, landing near the creek and was later in the flocks N. of the village. The rusty show to the back was evident, and eye color is so unlike Brewster's Blackbird I don't see how the two can be mistaken at close range.





P. DeBenedictis  
1965

## Acanthis

25 June

Barrow, Alaska - one ~~was~~ heard giving the characteristic "chet chet chet..." flight call and seen flying from opposite UOTM Creek to the vicinity of Barrowville. It was pink ventrally.

Acanthis sp  
is now  
Carduelis sp.  
pr Apr 1998

*Acanthis hornemanni*  
is now  
*Carduelis hornemanni*  
per AOU 1998



Acanthys boreomansui

28 May Meade River Coal Mine, Alaska

One seen flying over head, calling sickle-like, in the A.M. SE of camp.

31 May Two or more heard over the village and one heard over the "census" plot area.

1 June A least one heard near the village in the A.M.

2 June Finally ~~saw~~ <sup>saw</sup> them landed. 3 came into the village and landed in a garbage dump and began eating Elymus seeds. I was not impressed by them. The rump was pale on one, but all had streaked sides and backs. None showed red. They stayed around a while but flew off when my gun misfired.

4 June One came into the village <sup>about noon.</sup> and landed on a wire. Sounded like two or 3 flew off but didn't hear them.

5 June One heard 2 ♂ x on south ridge; it came in and landed at my feet when I squeaked. It seems more streaked on the back than flammings, but its sides are streaked. No red. One heard near the village in the A.M.

6 June One in the village in the A.M.

10 June One heard in flight near the coal mine.


12 June One heard in flight near L. Agassiz.

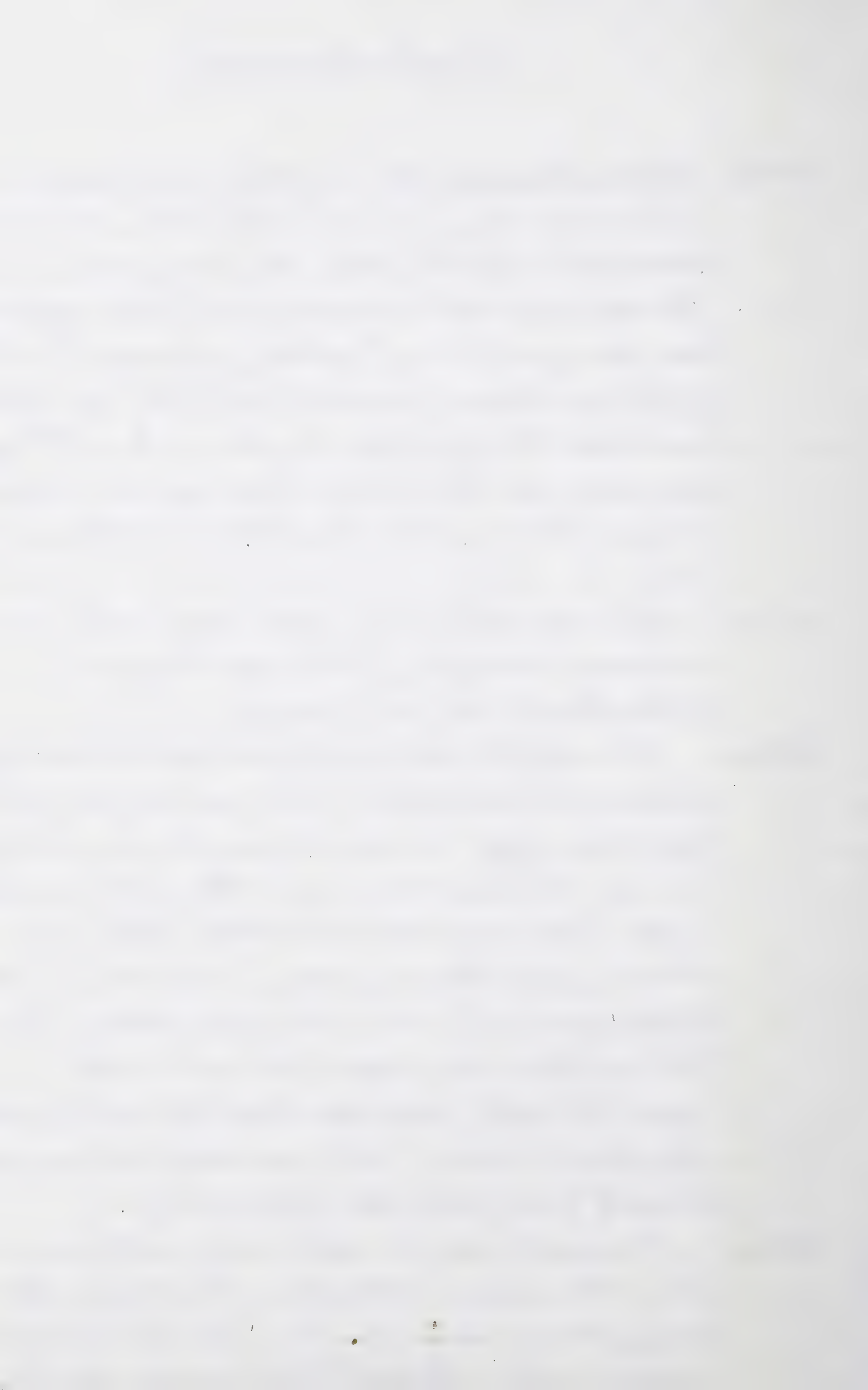
14 June Again landed near the runway at the airport. None showed any evidence of having "pale" wings. Characteristic. Though they seem lighter than Mich. and Fairbanks birds, and are more conspicuously pale rumped.





## Acanthus hornemanni

- 20 June Meade River Coal Mine. 157°25'W, 70°24'N, Alaska  
Birds near camp finally really coming down to feed. Heard them near the village also. Two feeding near the coal mine out on a sandy flat. When approached they are quiet. a ♂ probably, by plumage, the ♂ brighter and clearer marked than the ♀, and chasing her when they get close together. later a 3<sup>rd</sup> copoll appeared and the ♂ chased it for several minutes. Singing here and in the willows directly across the river.
- 21 June Sk71 around the mine and across the river. and much singing. 3 birds seen together. Evidently this is a late breeder.
- 25 June A ♀ collected had a well developed but poorly vascularized 1<sup>st</sup> brood patch, but was long way from laying any eggs. No sign of regressed ovary or follicles. The crop contained several small  slightly hairy dipteran larvae, ? gleaned from the mud under the willows along the river, where they are feeding. The ♂s singing loudly. but the group seen - sub - was quite social. The bird collected was a dark bird with streaked upper tail coverts, nearly plain brown tail coverts, and strong flank streaking. The ♂s were much clearer, but the one I "shot" flew off when I picked it up.
- 26 June Occasional near the coal mine and across the river. ♂s singing loudly now. They have a odd raucous buzzy phase which I have not heard from neopolls before - but this <sup>is</sup> the 1<sup>st</sup> breeding birds I have seen.





Acanthus novaezealandiae

- 27 June Meadle River Coal Mine, 150°25'W, 70°29'N, Alaska  
Two or three flying over the flats opposite camp.  
lots of singing.
- 28 June A pair along the bluff on the census plot in  
the Sold's plutchea. The ♂, the 1<sup>st</sup> pink bird I  
have seen, singing. Present all day. A little  
activity in the coal mine area in the  
evening.
- 29 June Noted in willows along the bluff on the large  
lake W of L. Agassiz, where a ♀ were feeding  
together and another ♂ singing. The ♂ seen  
was pink on the breast, and looked like it was  
bleeding, the pink fading out on the flanks.  
Heavily stretched on the flanks and wing.
- 30 June Heard in 2 flying overhead.
- 1 July At least 6 birds together in the willows on the  
village flats, feeding on the ground under the willow.  
2 were pink, the rest not. One was singing  
a lot. Hear them near camp occasionally.
- 3 July A couple of Redpolls near the coal mine,  
flying over.
- 4 July Birds flying over near the coal mine, singing  
from both side of the Meade.
- 5 July Scattered in the willows along the Meade.  
The ♂s are in breeding condition but not incubating.  
didn't get any ♀s. They are feeding in the willow  
and on the ground here, still eating the same small  
fly larvae they were eating before. Singing a lot now.





P. De Benedictis  
1965-1966

Alaska

Species Accounts - Part 2

Mammals





P. DeBenedictis  
1965

## Lemmus trimacronatus

15 June Burnow, Alaska - estimate density at about 20-30/acre on the ridge along Elson Lagoon. Animals quite noisy. Caught 7 animals from one position and jumped 5 from an area of 10 ft square.

16 June One the beach ridge in the area where Mullen & I collected them on June 12 the beards were a little more conspicuous than last time; we got 11 animals from an area about 100 x 40 feet and got 3 without moving the weasel (Mullen is "clonking"), and without beginning to hunt the population; missed 4 or 5. All were singles and saw at least twice as many others. They are digging busily in the tundra along the edge of the melts & seem less inclined to flight than on the 12<sup>th</sup>. Densities were higher, based on # of birds seen along clearings, on the south part of the Beach Ridge & Elson Lagoon. ~~Some~~ Some grubbing seen here, and they are fairly noisy under the ice.

17 June In the area between S. Sack Lagoon & Family Lagoon saw only 2 lemmings; saw about 25 in an equal sized area (120 acres) to the south of this.

18 June Almost no sign of them in the Baruel area but they are common on the Beach Ridge, the few animals we have taken being unnoticeable got 30B and banded 2 about 104s from an area about 1 acre and didn't touch to total pop.





P. DeBenedictis  
1965

lemmus trimucronatus

18 June

Burns, Alaska

Is are a lot more conspicuous now than earlier in the season. Their scree backs the wheezy quality of a ♂.

19 June

(They are migrating towards the sea) Two were seen on the gravel along the ~~W~~ end of Family lagoon and there were more in the area between M. & S. Salt lagoons than usual, although the species is far from numerous there, pop only  $1/8$  to  $1/4$  that on the Beach ridge.

20 June

No change from yesterday. Saw 2 chases between Larimids and kills by Jaeger, Sawey Owl and Least Weasel. See the latter.

21 June

Saw one in A.H. this noon and they are increasingly conspicuous near Button's Area due to the increase in numt. Saw 4-6 chases and found an animal in a Burrow that had really been in a scrap as the lower jaw was broken. It sounded off when I was 6 feet away instead of after I had almost stepped on it as they usually do. Nearly stepped on two.

22 June

Lemmings very active on the surface near Elson lagoon. Two near each other cuffed each other on the face, then one ran around the other & they copulated briefly. The female ran off about 3 feet & this was repeated 3-5 times. Lots of chasing now, and lemmings are fairly vocal.





P. DeBenedictis  
1965

Lemmus trimacrotus

- 24 June Barrow, Alaska - Still present in huge numbers, at least 100 / acre on the beach ridge and along Elson Lagoon. Not at all hard to see 25-30' at one time within 50 feet in front of you. They are hiding in the drift and excavating short burrows, from which their families usually protrude, in the dune ridge areas; they are quite hard to extract from these when they go in. Not easy to make them go into defense posture. They are about as common in the newly exposed area of Central Marsh. There is considerable present, as if breeding, is about to begin, and dead animals are appearing on the tundra with increasing frequency.
- 25 June The lemmings do not seem to be as numerous today as yesterday, only about  $\frac{2}{3}$ 's the # seen. The burrow systems are being rapidly enlarged. Saw one on the beach ridge which appeared to have paralyzed hind limbs. They are fiercer than usual and quite vocal; <sup>about</sup> 8-10 chases were seen. Most seen seem to be fairly large.
- 26 June They are now very strikingly hidden on high lands, and burrow workings are extensive. Still quite common. Saw 2 in Adh, and 3 in the barrel area for the 1<sup>st</sup> time this evening.
- 27 June Lemmings in about constant numbers everywhere in the Voth area but not heavily dug in. There are more in the Barrell area than I had thought but judging from the plant damage there are only a fraction of what are <sup>present</sup> elsewhere.





P. DeBenedictis  
1965

Leannus trimacronatus

28 June Barrow, Alaska - They do not seem very conspicuous even though it seems I tried on one (almost) every 25-30 feet or so, so that actually #s must still be fairly high. Terges not having much trouble finding them and a # of dead ones about, the fresh one fairly large and the only small ones seem very old.

30 June Although central marsh is rather badly flooded they are still fair numbers of hummings out in it, although they are quite a bit more numerous along the periphery than in the center. They enter the water readily when approached and swim well. Populations on the marsh do not appear to be as high as elsewhere in dryer areas.

2 July Now as last time the small individuals rather inconspicuous. Some burrow systems are getting quite extensive and one no longer sees tufts of humming fir protruding from burrows. A husky from the lab spent much time chasing them this afternoon; hummings sounded off at the approach of the dog, which usually caused the dog to move in. When pursued on the surface the humming attempted to run for cover, screaming all the time but as the dog came near they would turn around and face it causing the dog to back off - it obviously had great respect for the hummings as it was very careful about how it made each kill, going in slowly and frequently playing for some time before a capture was made. The hummings did not escape very often - only when they got to a <sup>burrow</sup> ~~runway~~ system that the dog couldn't dig out.





P. DeBenedictis  
1965

Lemmus trimacronatus

4 July Barrow, Alaska - one was seen out in North slough, giving a muffled squeak and digging in a pile of clippings: on closer inspection a 2<sup>nd</sup> lemming was seen in the pile. The animal digging in appeared to be a ♂ and it would dig in until the face of the buried lemming was exposed. Then run around to the back of the <sup>2<sup>nd</sup></sup> animal and begin to dig again. At the same time the 2<sup>nd</sup> lemming would turn around in the grass pile so that the two always ended up facing each other. This kept up for 2-3 minutes, then the ♂ quit and ran off down a runway. There did not seem to be any change in #s in any of the areas covered today.

5 July A few were seen well out in Central Marsh and there are well maintained runways in those parts of the <sup>marsh</sup> runway that are drier. They are probably not as common here as they are in higher places.

6 July There seem to be about as many along the shore of Elson Lagoon as anywhere, but there seemed to be very few in Holmes' Marsh and Central Marsh although some runways were well maintained and a few of the huts were seen.

12 July lemmings seem to be about as common around Ikroavik as close in <sup>to</sup> the station.

Very little change in #s after this time  
no young seen to at least 29 July.





P. De Bened. & Co  
1965

Red Fox  
Vulpes fulva

18 June Barrow, Alaska, A large animal with an almost all red tail seen on an area of high Polygons at the SE side of Family Lagoon about 4 PM. It sat out in the open for 5 minutes and went off slowly as <sup>Hamilton & I</sup> ~~we~~ worked toward it. It often looked remarkably cat-like, and is shorter nosed than Red Foxes I am used to.

29 June One seen crossing the central part of the tundra area about noon. It had a very mangy tail.

21 July One seen in the tundra area behind the lab. It was not shyer and in brighter pelage than earlier and the tail is still mangy!


Mustela



RD Buedick  
1965

## Least Weasel


20 June

Barrow, Alaska - I was playing with a hummingbird when Bob Hamilton noticed a weasel about 15-20 feet away. It seemed to be very interested in the noise made by the hummingbird + kept popping its head up and looking our direction. It gradually approached, <sup>1st</sup> working along the edge of a snow bank then crossing over a flooded trough on top of the snow to a tunnel, to appear only 10-12 feet away, and worked closer, again along the edge of a snow bank until it was about 7-9 feet away. It then ran back to where it came from, reappeared with a medium-sized hummingbird (50-70 gr.) and chased this to about the area where it came closest to us. It then disappeared into a heavy weed hole. We went over to investigate and we were able to chase the weasel out without trying. The ~~area~~ <sup>area</sup> around the hole is littered with hummingbird feces and there were small piles of grass cuttings. The animals obviously don't like to get wet as there are paths across the snow in the troughs rather than under as the hummingbirds go, and the area for about 20 feet around the den site was obviously ~~heavily~~ <sup>heavily</sup> utilized judging from the tracks on the snow. The tracks ~~are~~ <sup>close together</sup> and form rows over the snow, where the weasels hop. , making a deep and well rounded-footed impression than the hummingbirds do.





## Least Weasel

11 July Brewer, Alaska - one was found under an old piece of corrugated metal roofing; it hid under this and could be induced to pop out by our squeaking at it. It was quiet curiously and took an erect posture  when it wanted to see what was going on. We flipped over the metal and were able to photograph it at close range. There was a partly eaten humming under the metal. After we had done this several (6-7) times, the weasel took off and went into a shallow burrow system where we got more photos. Then it came back. This was repeated 3 times & the weasel finally had enough & took off.

12 July One seen west of Ikroavik.

23 July I came into this story when a pair of jaegers snatched 2 from a brood of at least 5 young weasels. Two of the Cell people told me a family, 6 young and 1 parent came strolling past them. They had gone about 35 feet when spotted by a pair of Pomarine Jaegers and had dashed for a hole, 2 of the young not making it. The jaegers grabbed the young by the head and carried them to their chicks. At the same time the ♀ weasel appeared and ran to the spot where the young were caught, to which we had gone earlier, and came to 4 feet from us. She went into a humming hole, went in, then popped up 3-4 times, finally ~~gave~~ gave a low, almost pining "drrrdrrrr drr" call, and appeared with 1 young, which was about 2/3 full grown, and carried it off to another burrow about 50 feet away, in ~~3~~ 5 seconds.





P. De Benedictis  
1965

## Least weasel

29 July Barrow, Alaska - she carried the young by the side of the nose and the young bent was clearly and roughly dragged along; the ♀ stayed to runways while carrying the young. After about 1-2 seconds, the ♀ returned, repeated the procedure and carried off a 2<sup>nd</sup> young weasel the same way; the jaeger returned at this time so the ♀ ditched the weasel under some cuttings and hid; the jaeger moved off, and the ♀ came back to us and going through the same procedure carried off a 3 young weasel, making it to a hole about 20 from the hole the 1<sup>st</sup> young was taken to, and here was cornered by the jaeger. She kept popping up and going down ~~and~~ and the jaeger stayed off; they were scared off by one of the crew people and the weasel took this opportunity to go after the young that had been ditched, getting it to the ~~hole~~ <sup>hole</sup> to which she took the 2<sup>nd</sup> young. She was again cornered by the jaeger, both of the pair standing about 4 feet off; the weasel went through the same procedure of popping up and down and the jaeger were clearly hesitant to attack. after about a minute of this it appeared the weasel took the initiative and attacked the ♀ jaeger, running towards the jaeger and jumping towards the jaeger's throat. The jaeger backed off and the ♂ soon left. The weasel over played her hand because the jaeger eventually got hold of the weasel, after 1-2 minutes, holding it behind the head and flying up about 15 feet; the weasel squirmed and the jaeger





P. DeBenedictis  
1965

## Least Weasel

29 July Burns Alaska - came down and dropped the weasel, which immediately attacked the jaegers, and this was repeated 4 times, the weasel clearly being overcome and the jaegers staying ~~close~~<sup>close</sup> in and becoming less hesitant to attack. The ♂ jaeger stayed near the ♀ but did not assist in the "kill" and after the 1<sup>st</sup> time the weasel was dropped ~~the~~ jaeger from the pair to the north came in and tried to "horm in"; it was not chased off until after it had a half minute or so period to get at the weasel which was on the ground floundering off the jaeger. at the time. After the ♀ jaeger got the weasel, her mate chased the intruder away. The 3<sup>rd</sup> time the weasel was dropped a jaeger ~~from~~<sup>for</sup> another pair (or a non-breeder) appeared and was immediately chased off. The 4<sup>th</sup> time the weasel was dropped, she (the weasel) <sup>seemed</sup> got away, and the jaegers flew away without attempting to pick up the weasel; they ~~apparently~~<sup>apparently</sup> chased an intruder on their territory instead. I went to the spot where the weasel was dropped and found nothing. There were no more young in the hole where she got the 3 and ~~the last~~<sup>the last</sup> young moved was caught and released. It barked a loud, rough "yaff-yaff" when cornered and attempted clumsily to defend itself. When I appeared after the jaegers got the 1<sup>st</sup> two young she appeared to be searching for them, running actively in and out burrows and ignoring us completely; after the 3 young were found, she moved the very rapidly and





P. DeBenedictis  
1965

## Least Weasel

29 July Barrow, Alaska - appeared to "know" where she was going. She was more nervous about getting the 3<sup>rd</sup> young and hesitated awhile before going after it. What a time not to have my ~~of~~ camera. See Pom. Jaeger for other remarks.





















